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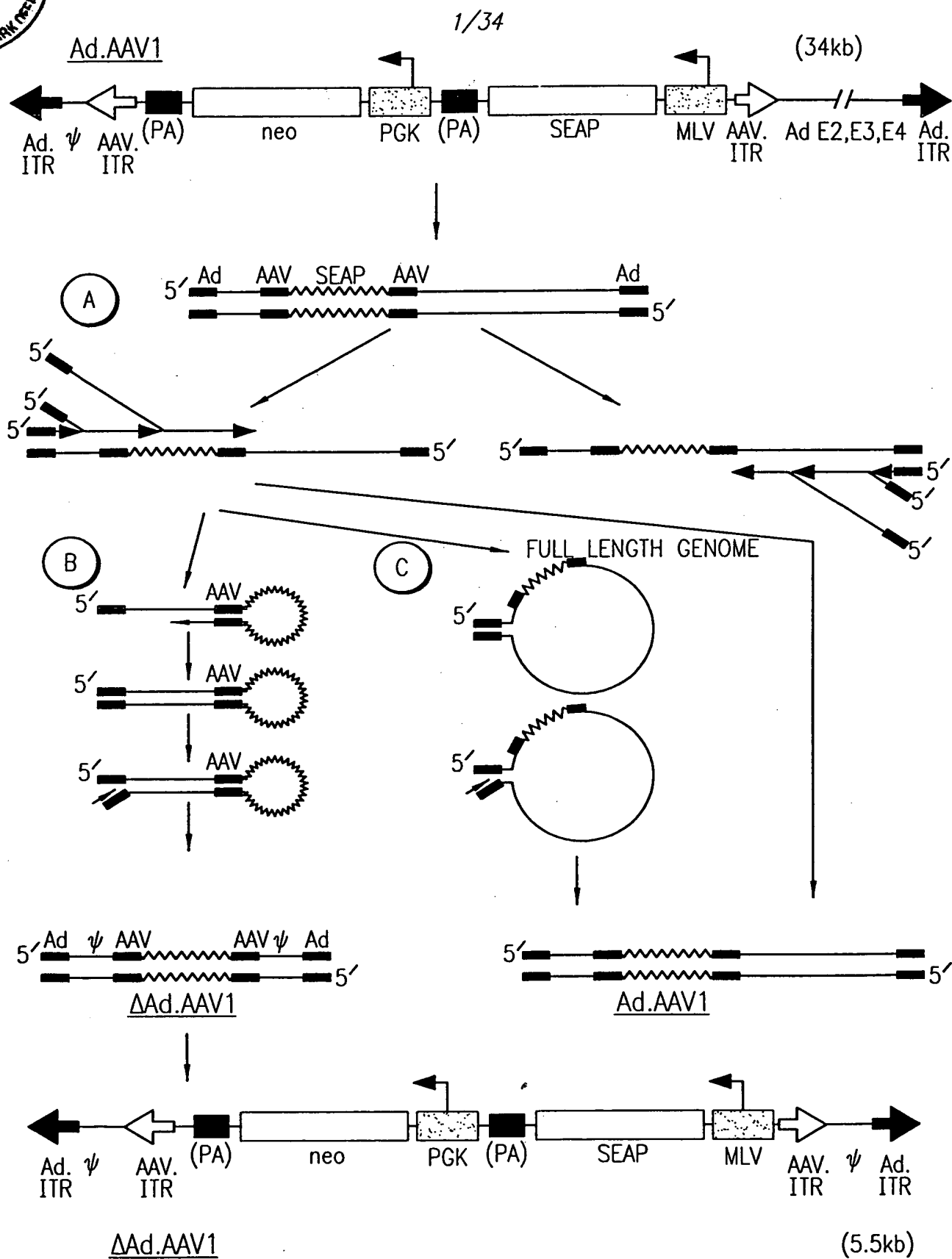
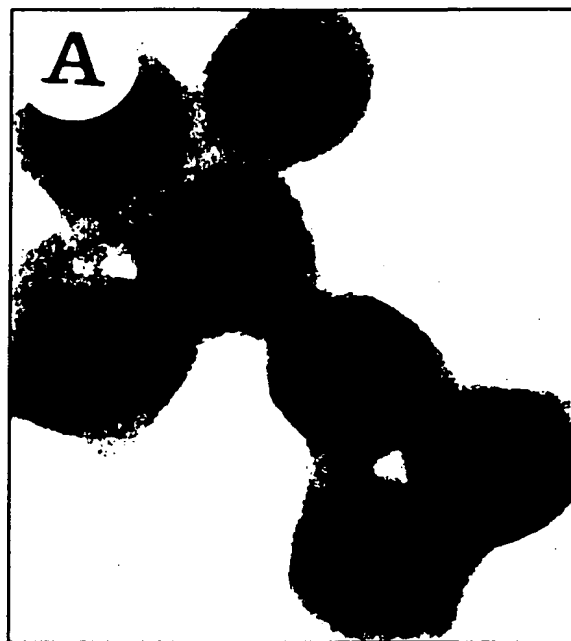


FIG. 1

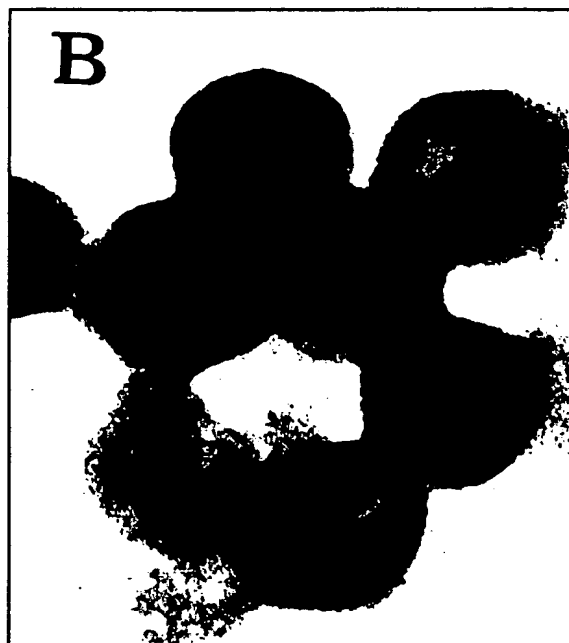
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Ad.AAV
(33kb)



50nm

Δ Ad.AAV
(5.5kb)



50nm

FIG. 2

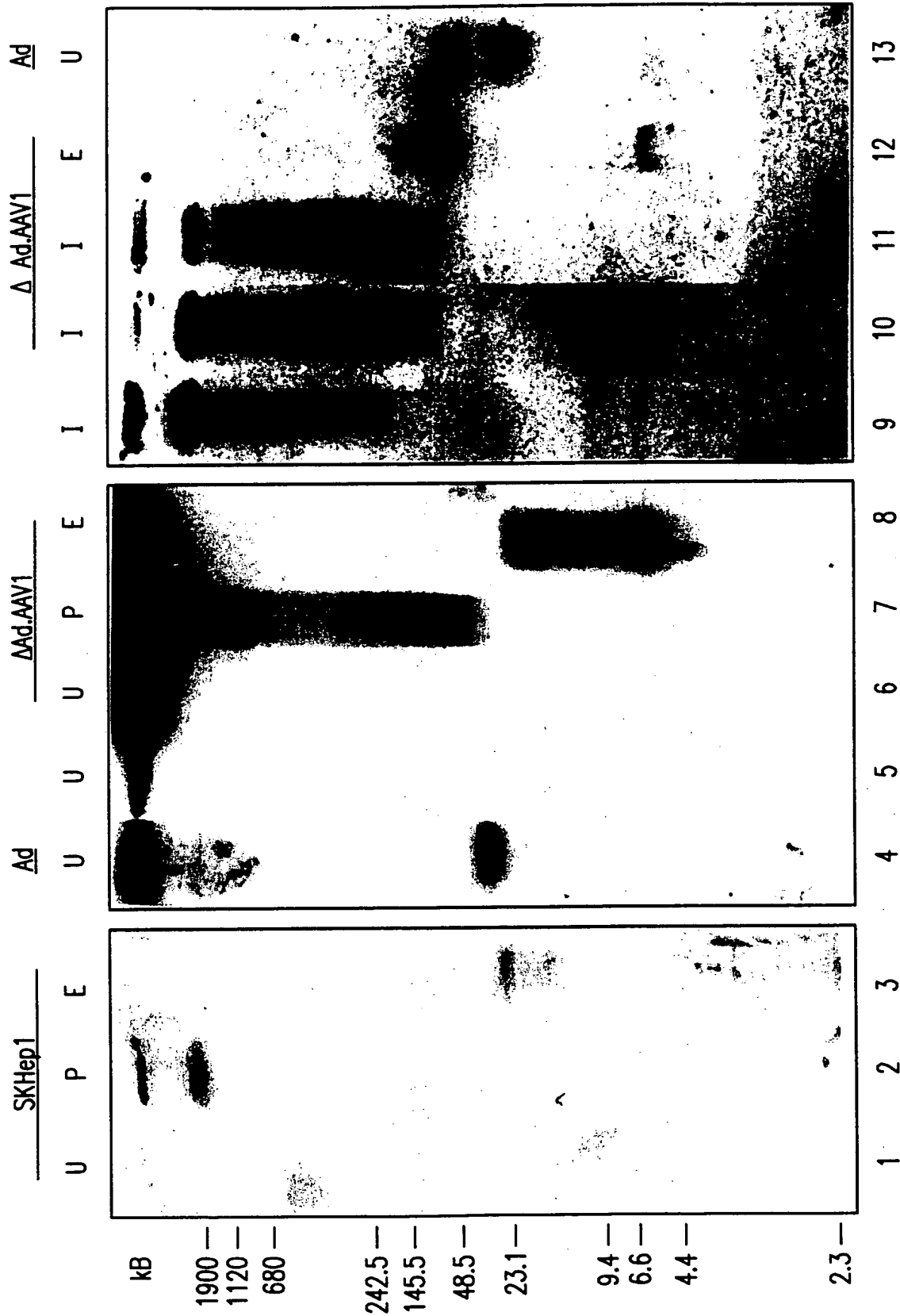


FIG. 3



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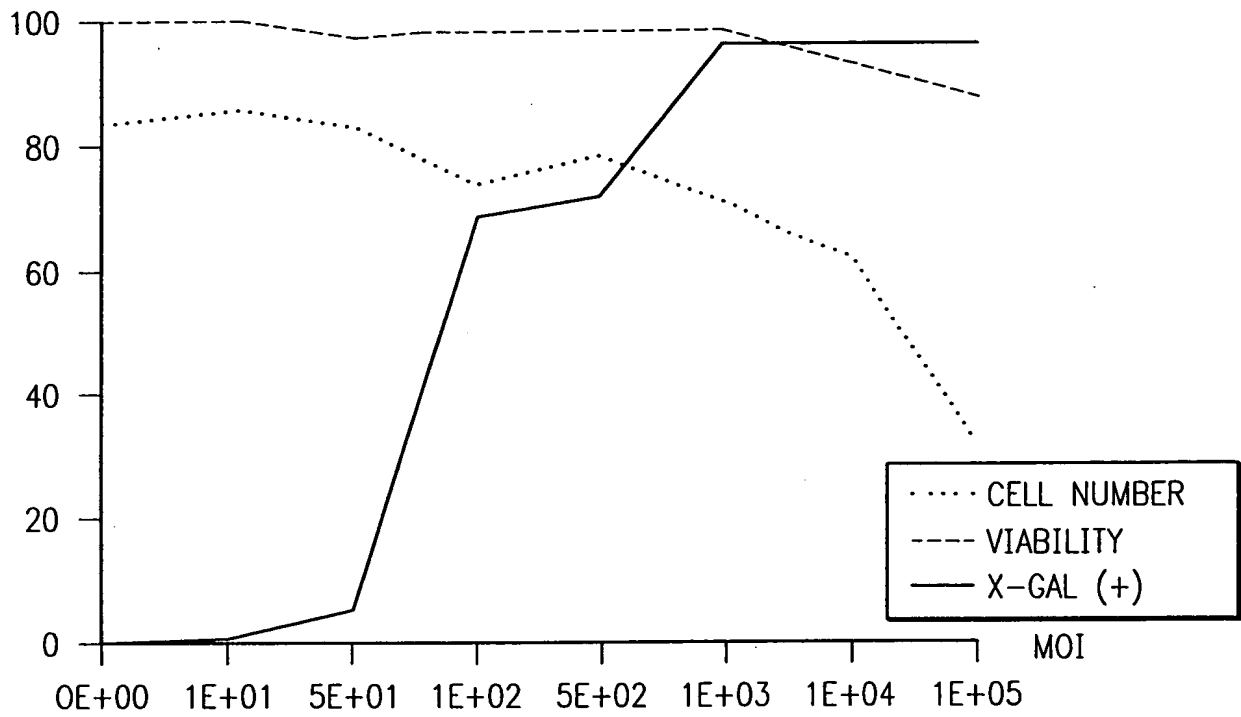


FIG. 4A K562

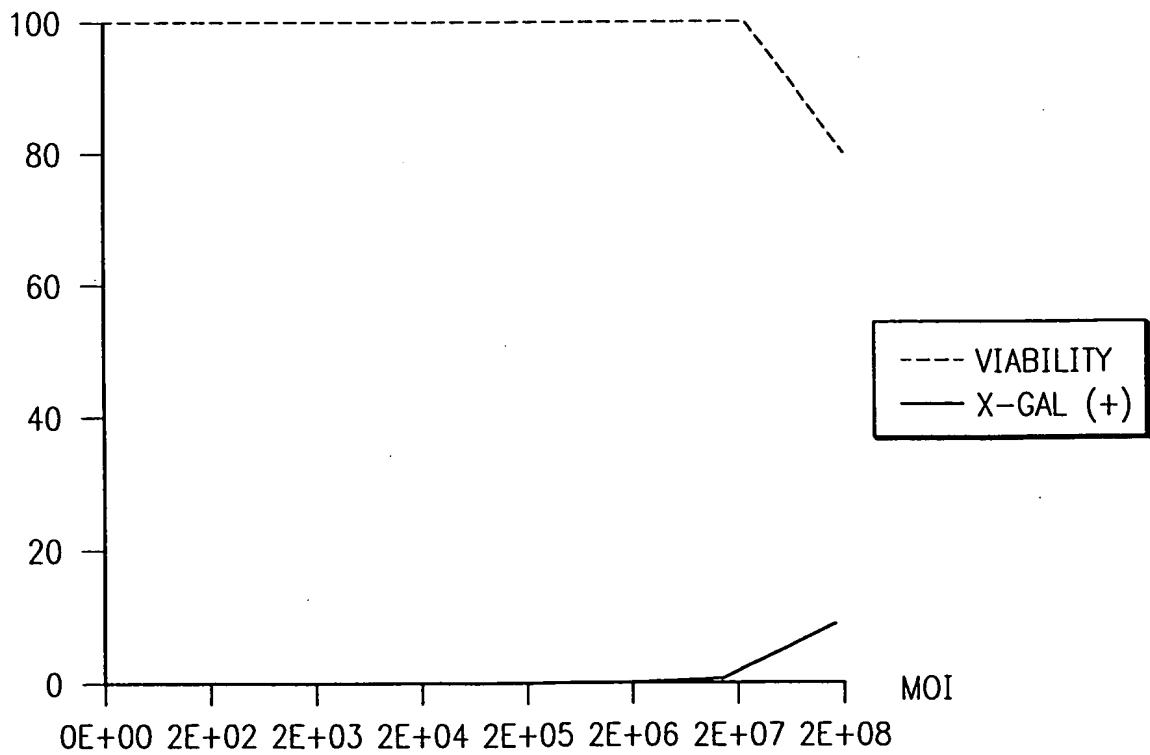


FIG. 4B CD34+

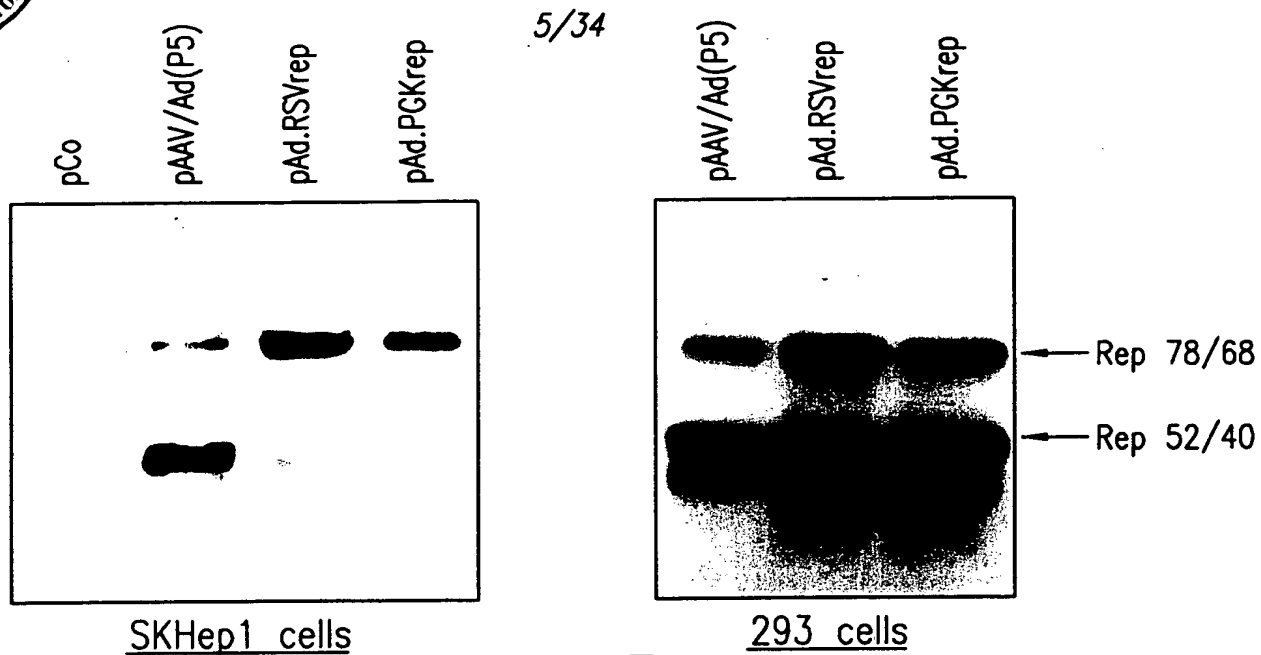


FIG. 5

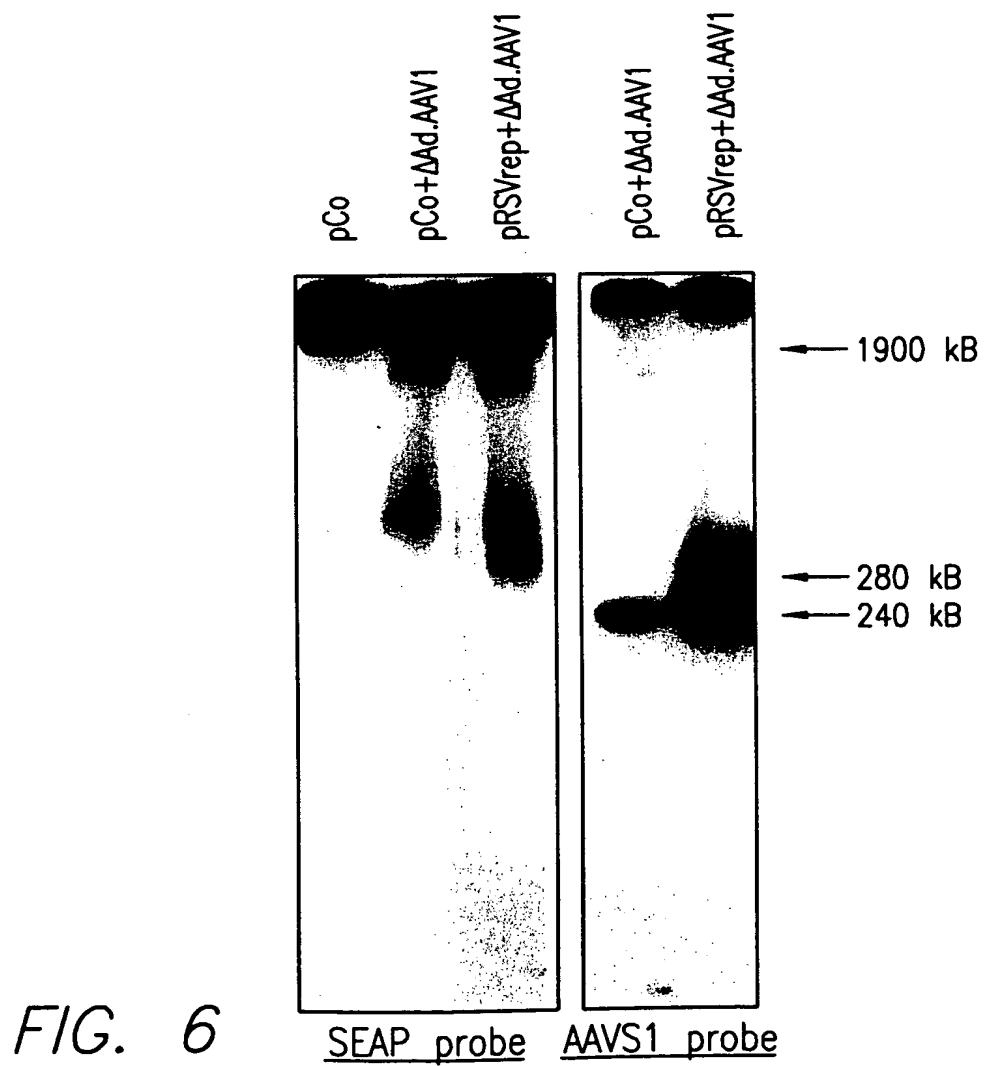
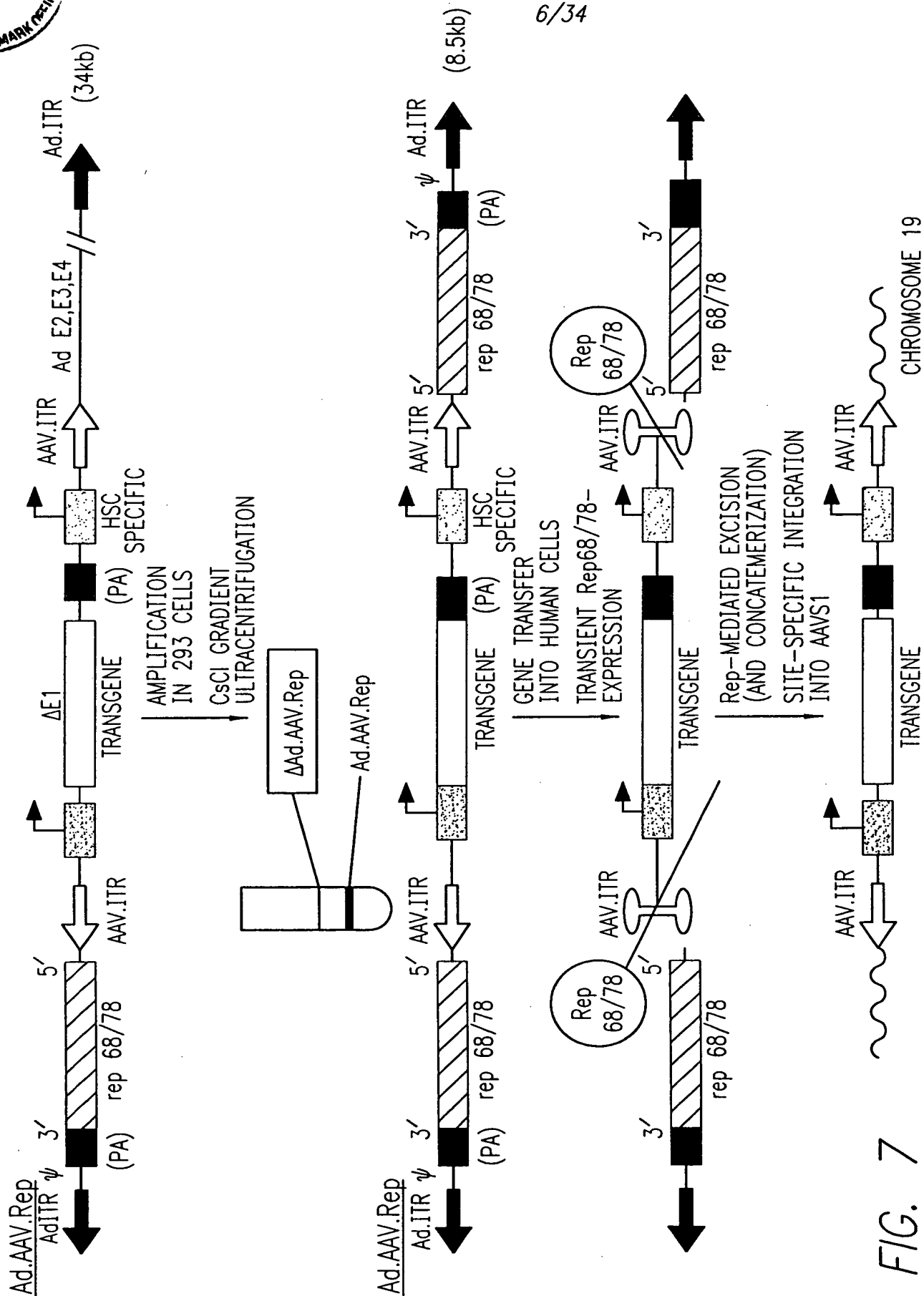
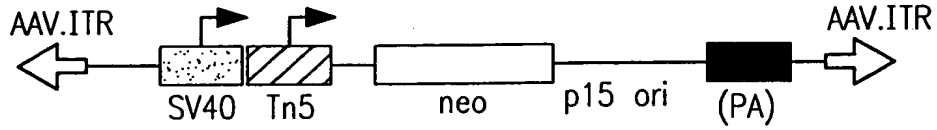


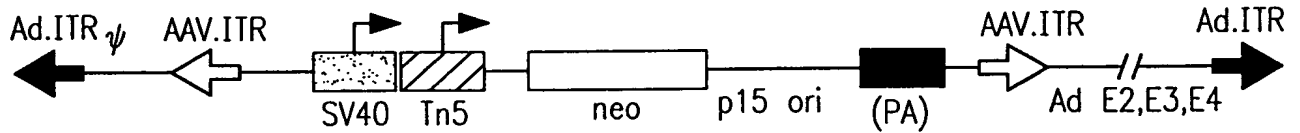
FIG. 6



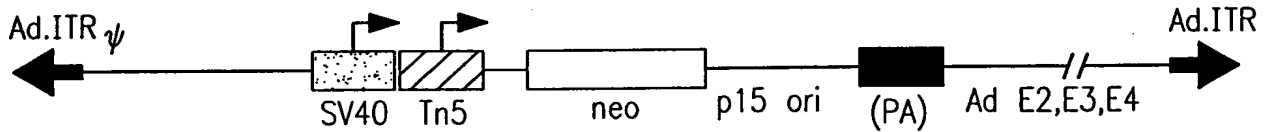
rAAV-SNori
3.5kb (ss)



Ad.AAV-SNoriITR
35 kb (ds)



Ad.SNori
35kb (ds)



ΔAd.AAVSNori
4.8kb (ds)

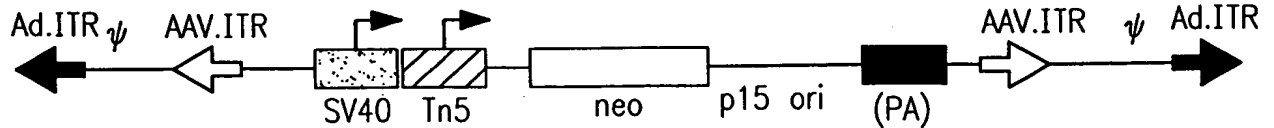
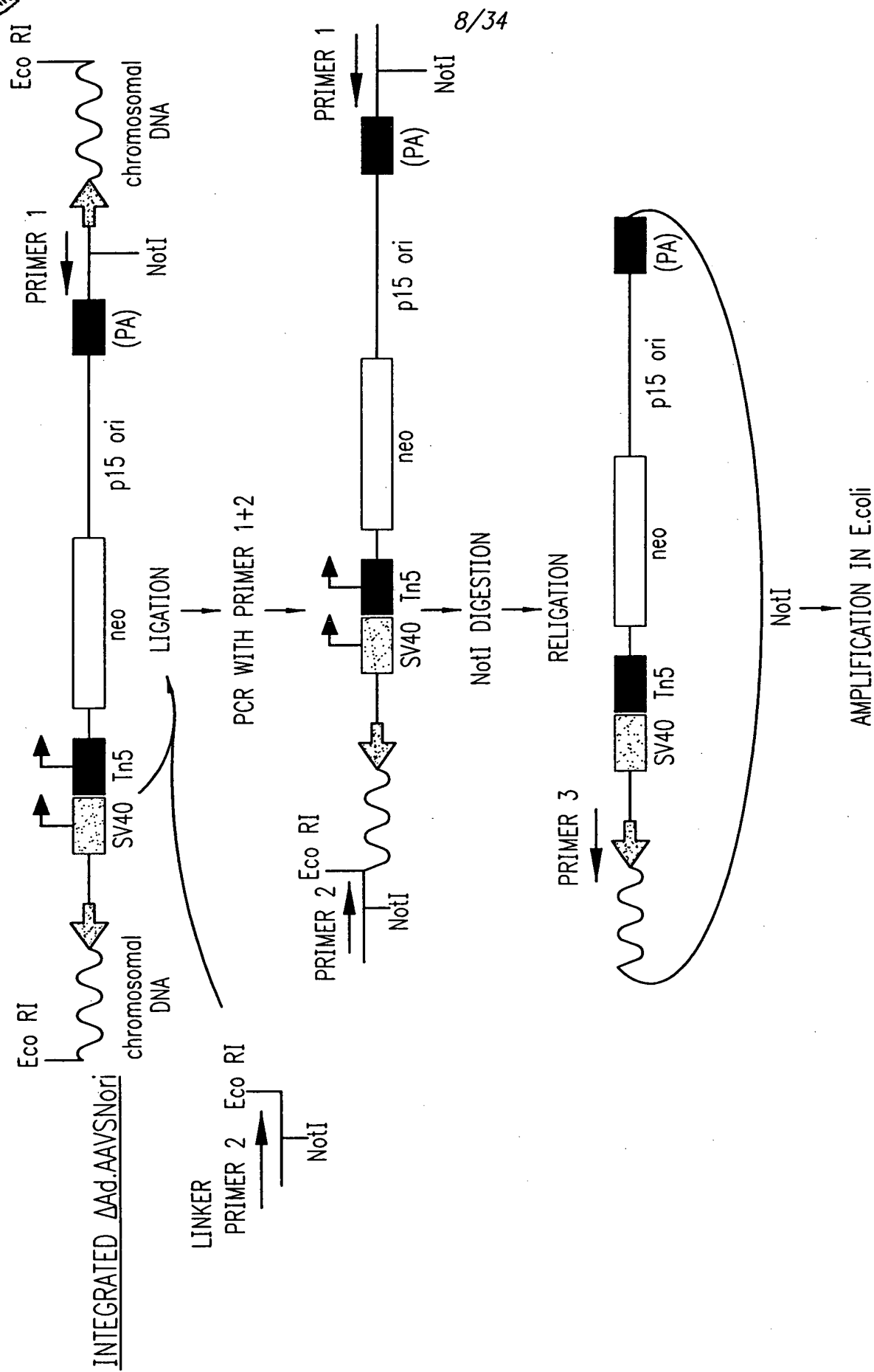


FIG. 8A



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FIG. 8B

SEQUENCING OF CHROMOSOMAL DNA WITH PRIMER 3

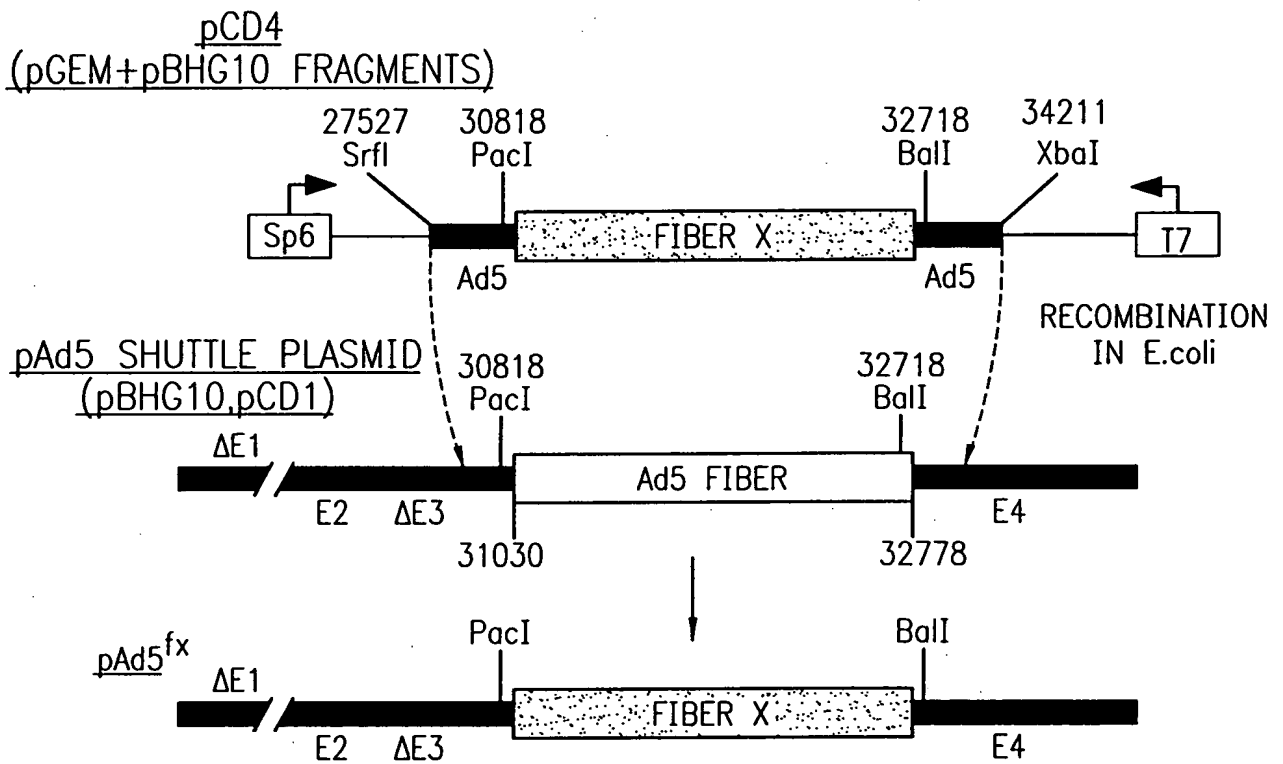
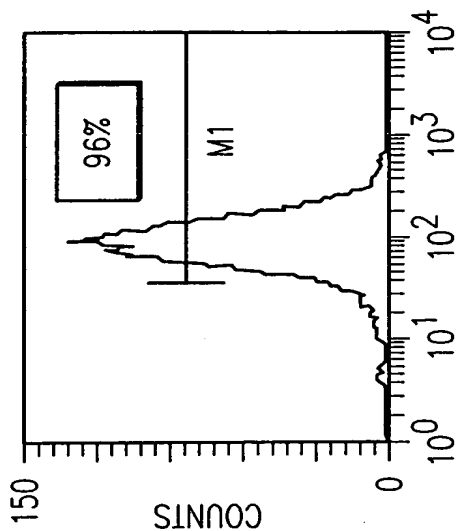
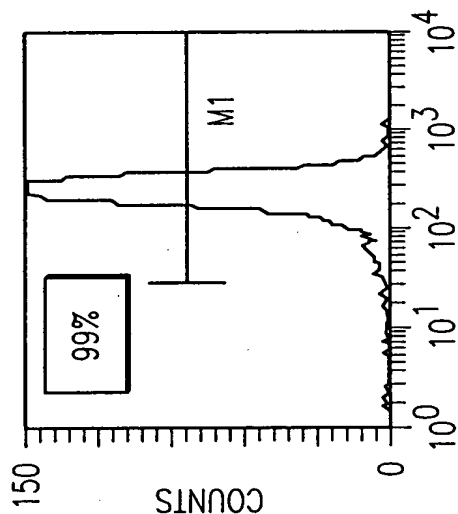


FIG. 9

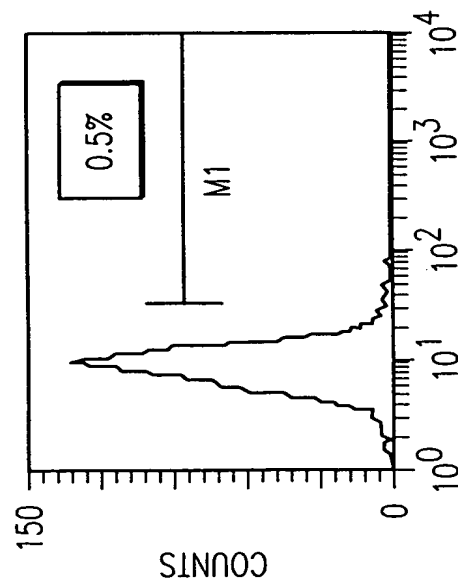
α_V - INTEGRINS



CAR

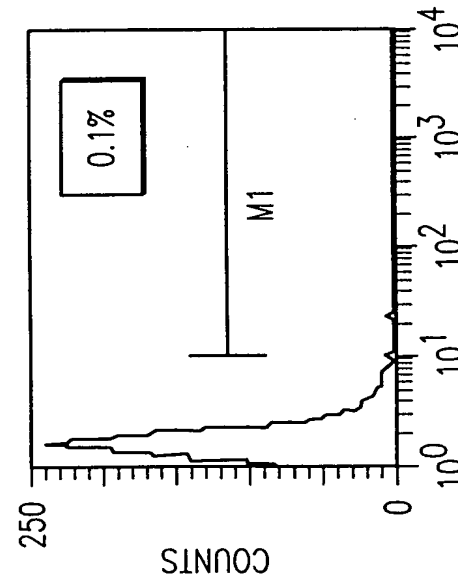
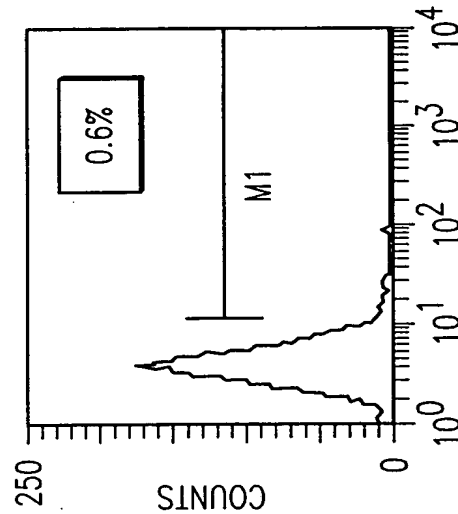
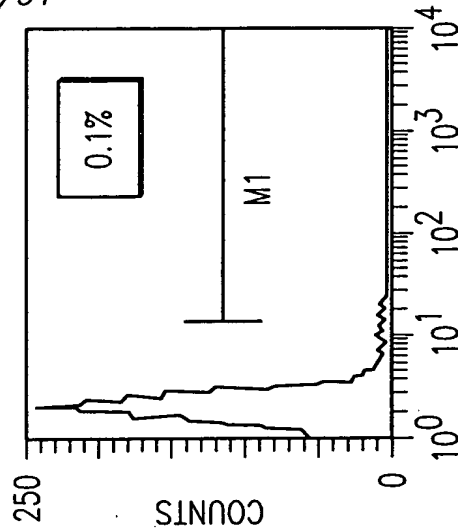


NEGATIVE CONTROL



HeLa

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CHO

FIG. 10-i



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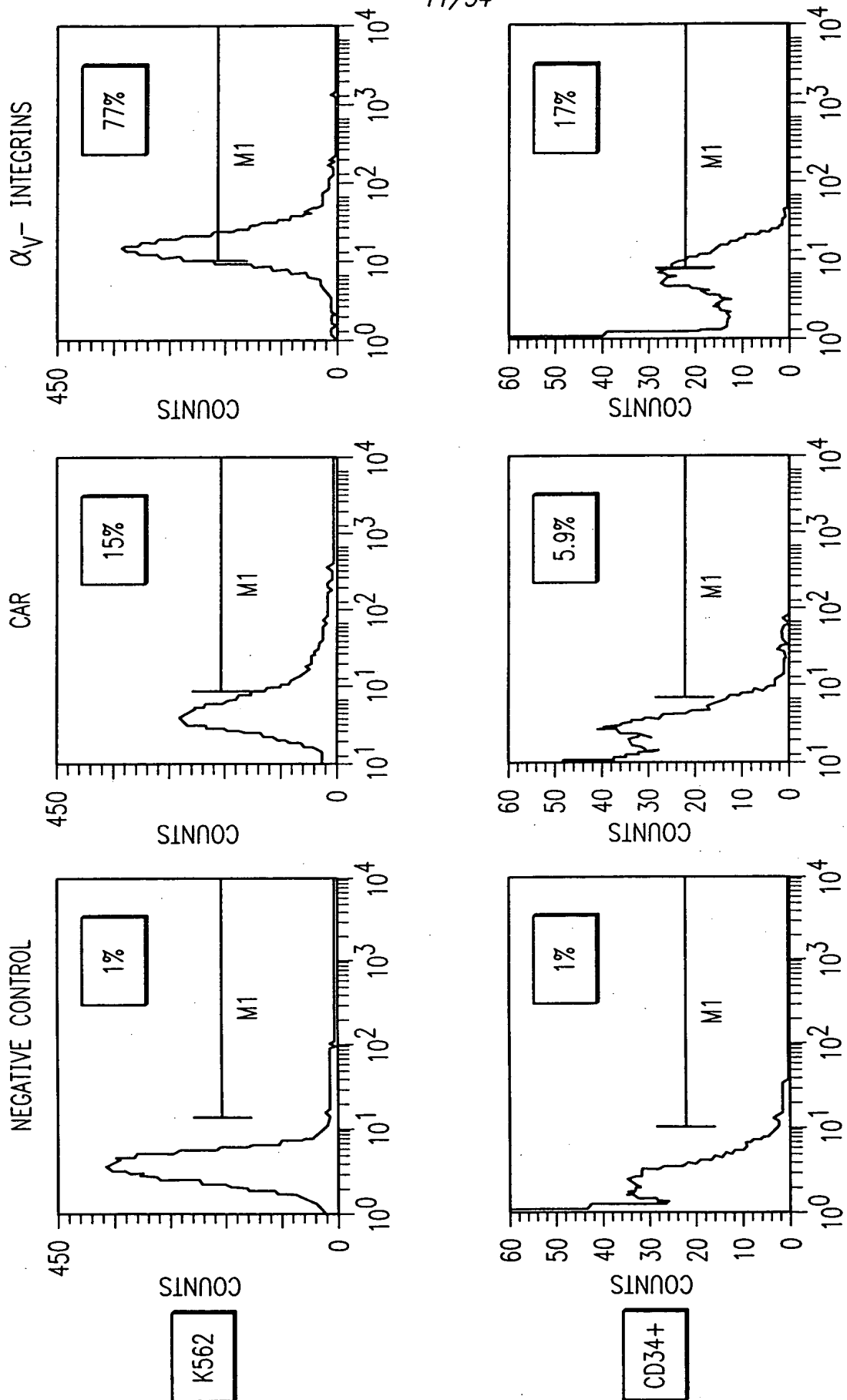
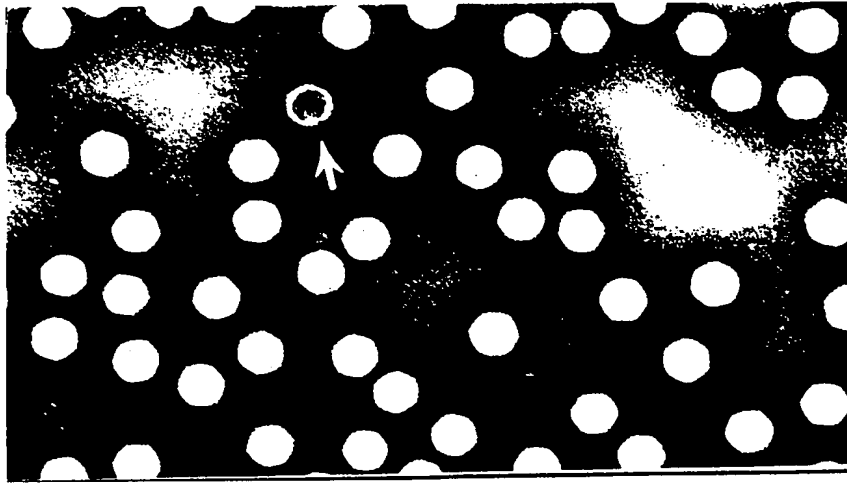


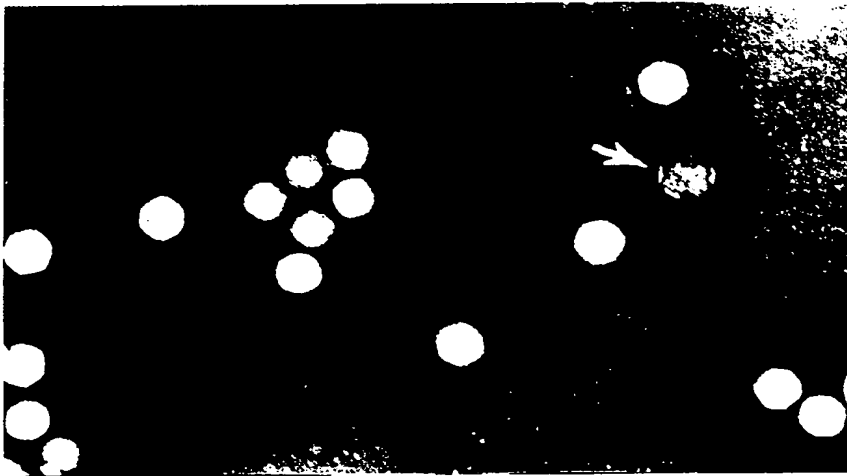
FIG. 10-ii



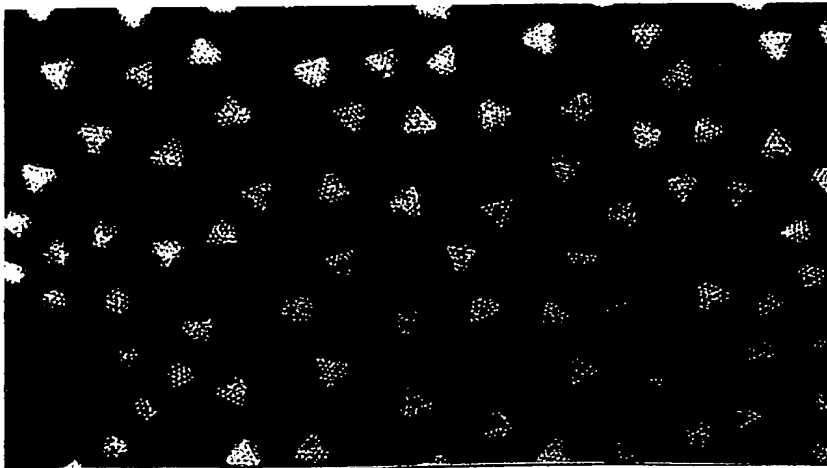
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Ad 35



Ad 9



Ad 5

FIG. 11

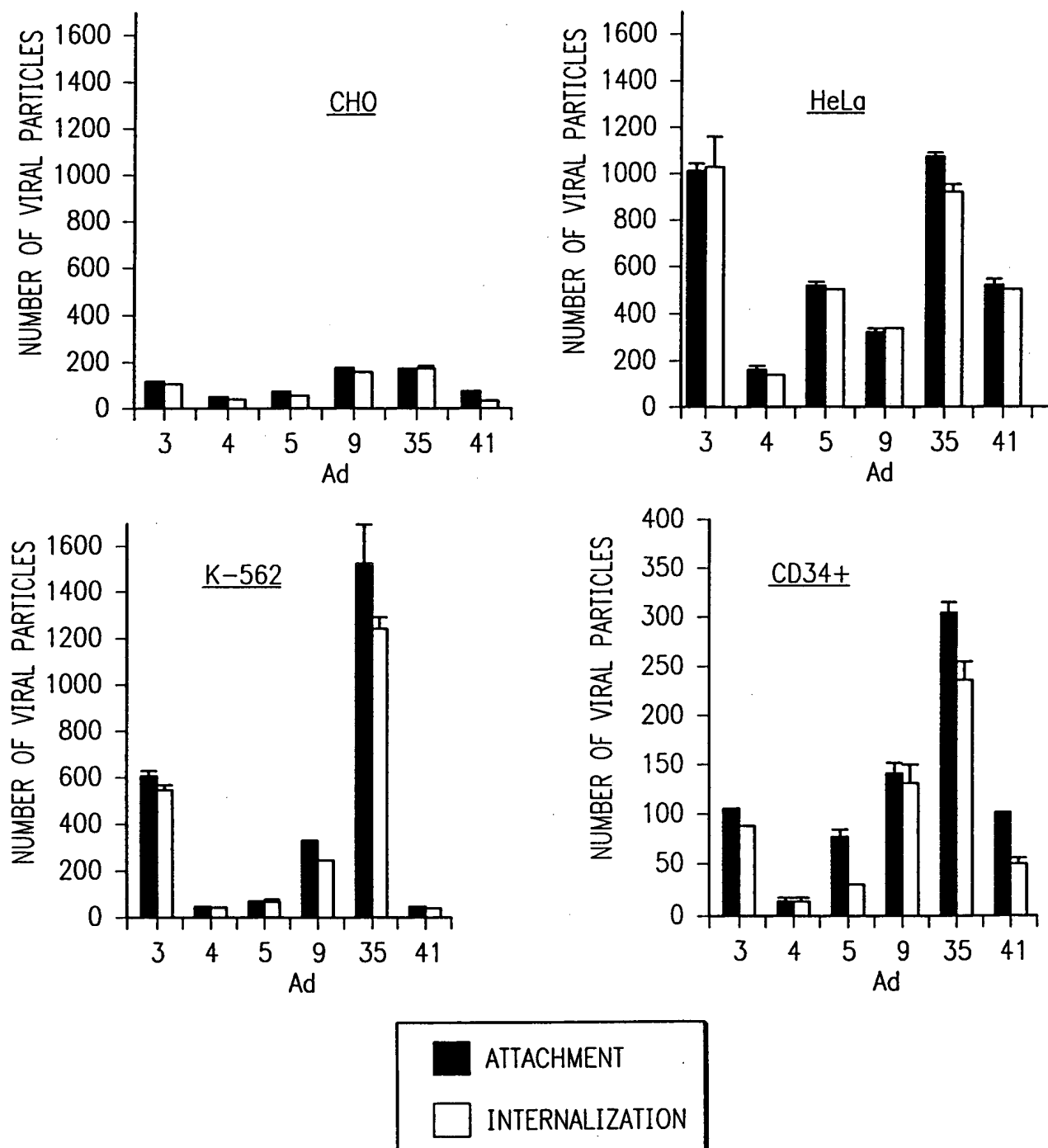
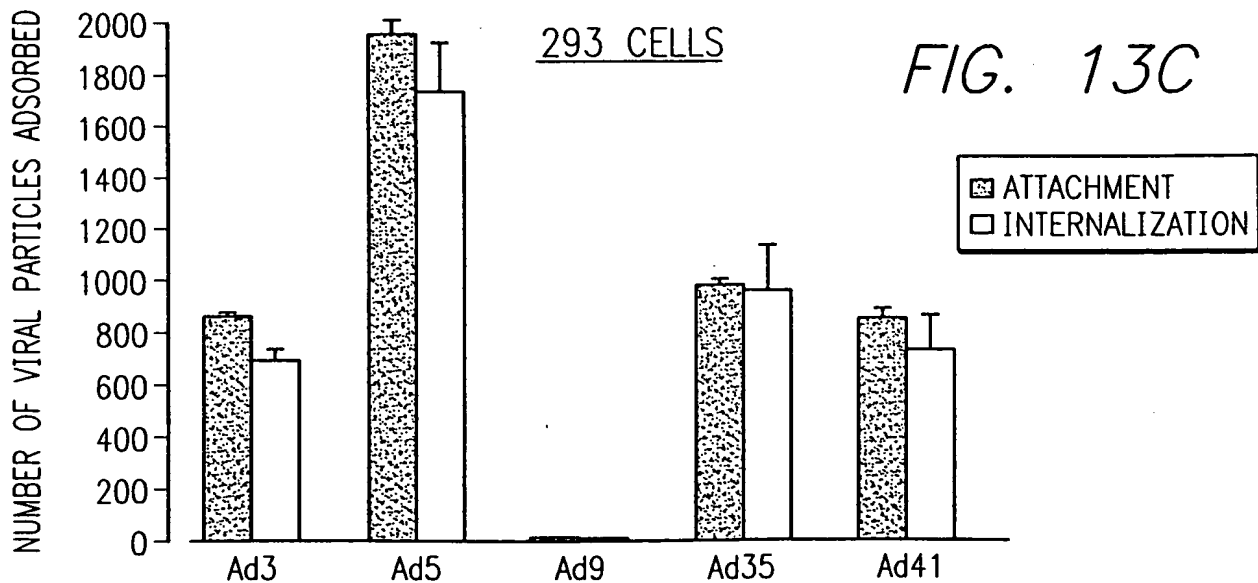
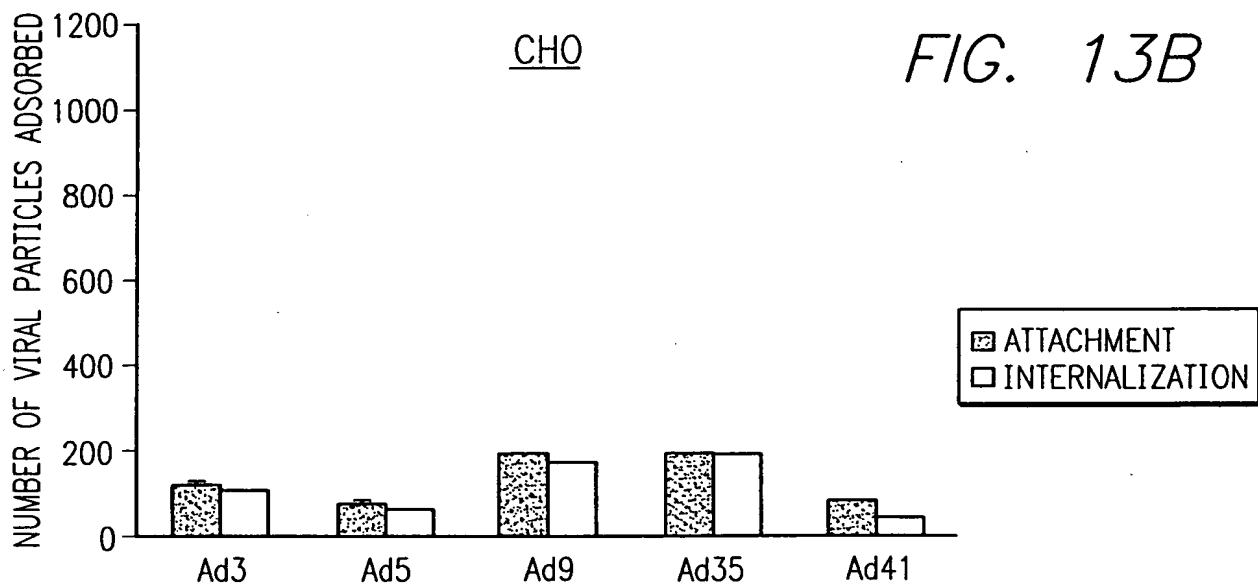
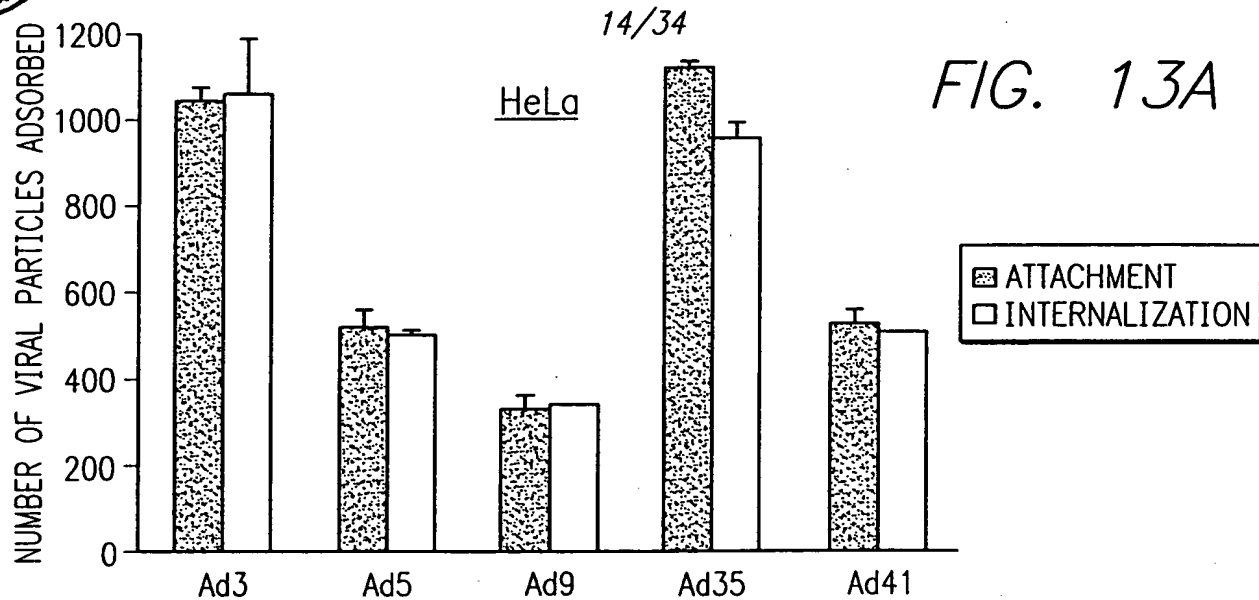


FIG. 12



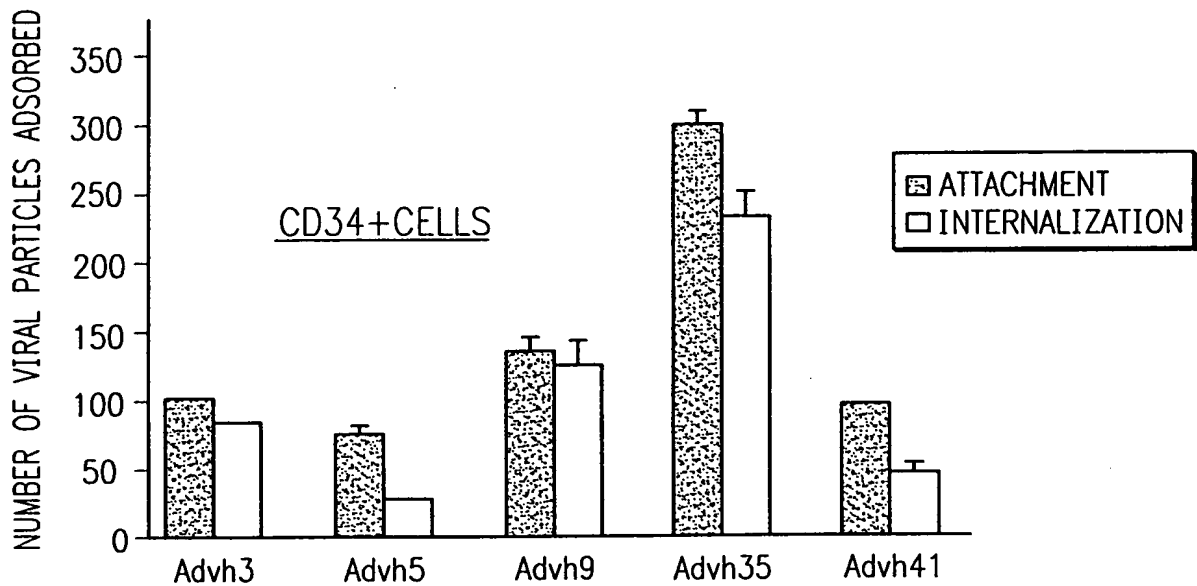


FIG. 14A

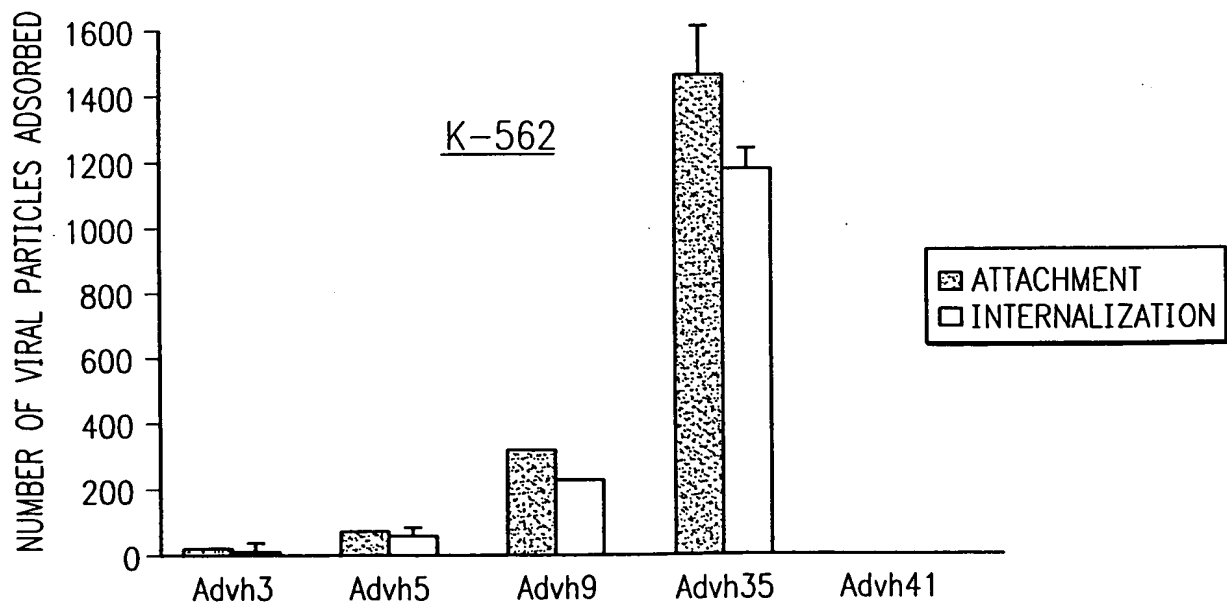


FIG. 14B

K562 cells

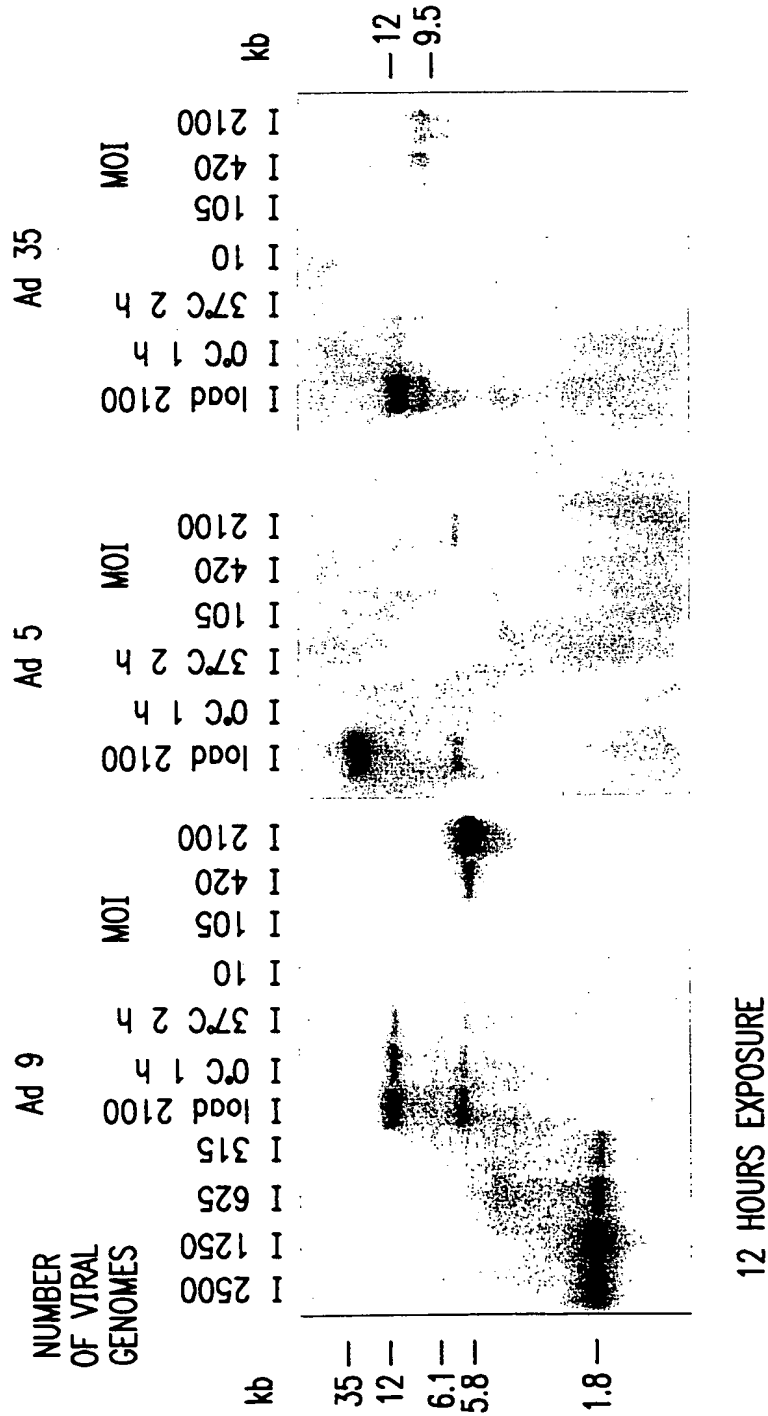


FIG. 15A

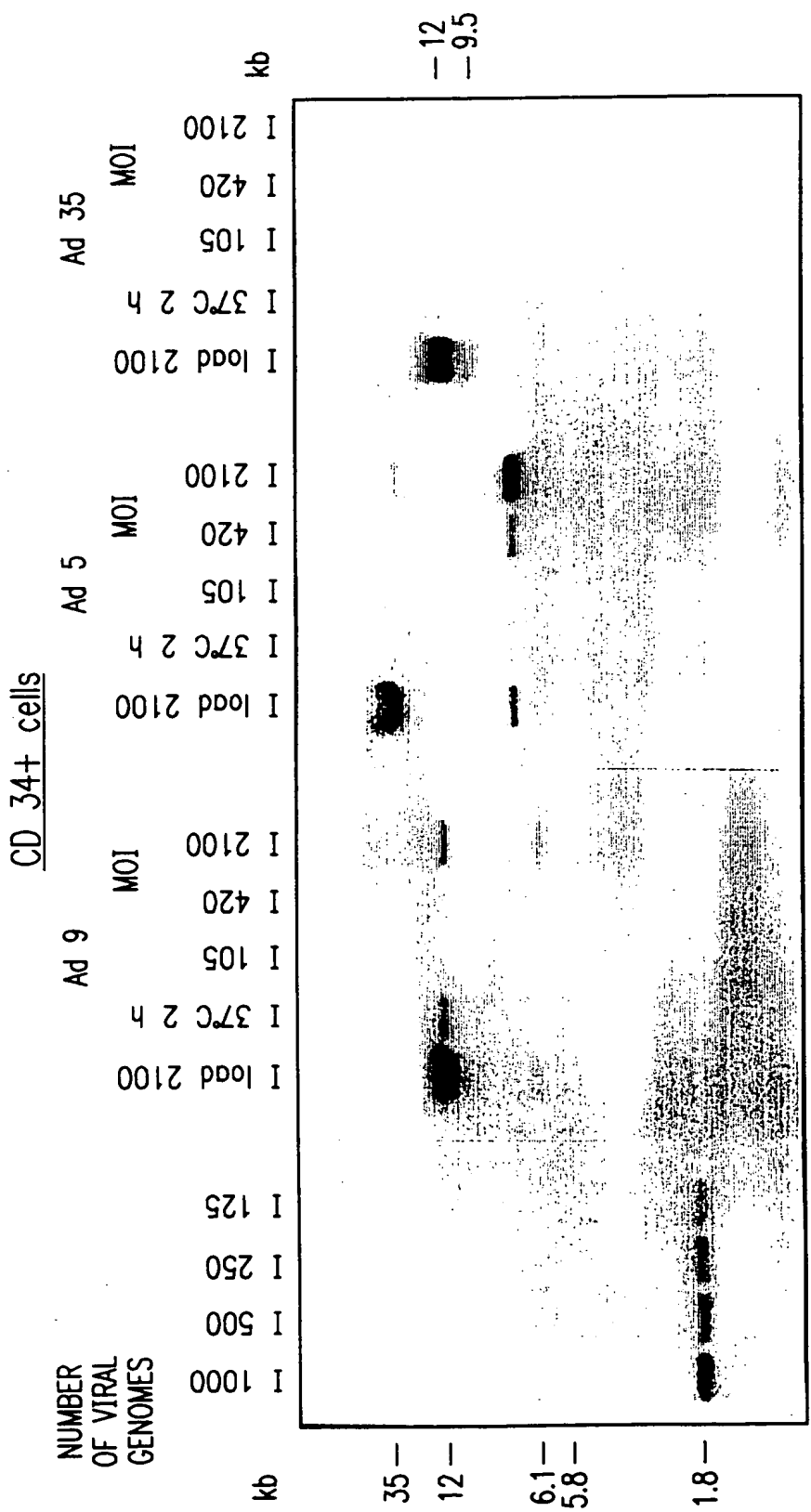


FIG. 15B

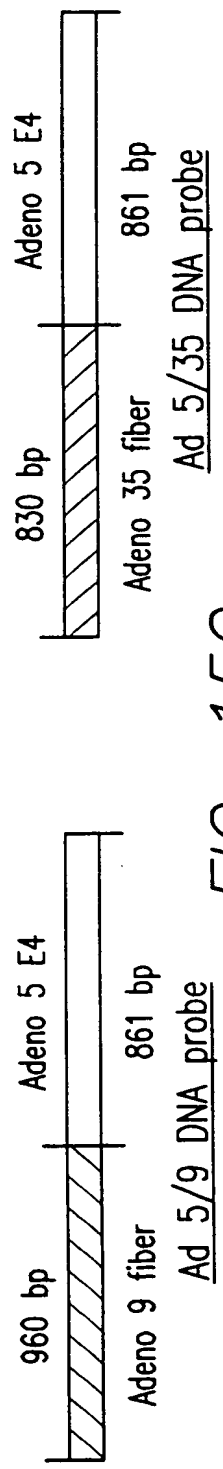


FIG. 15C

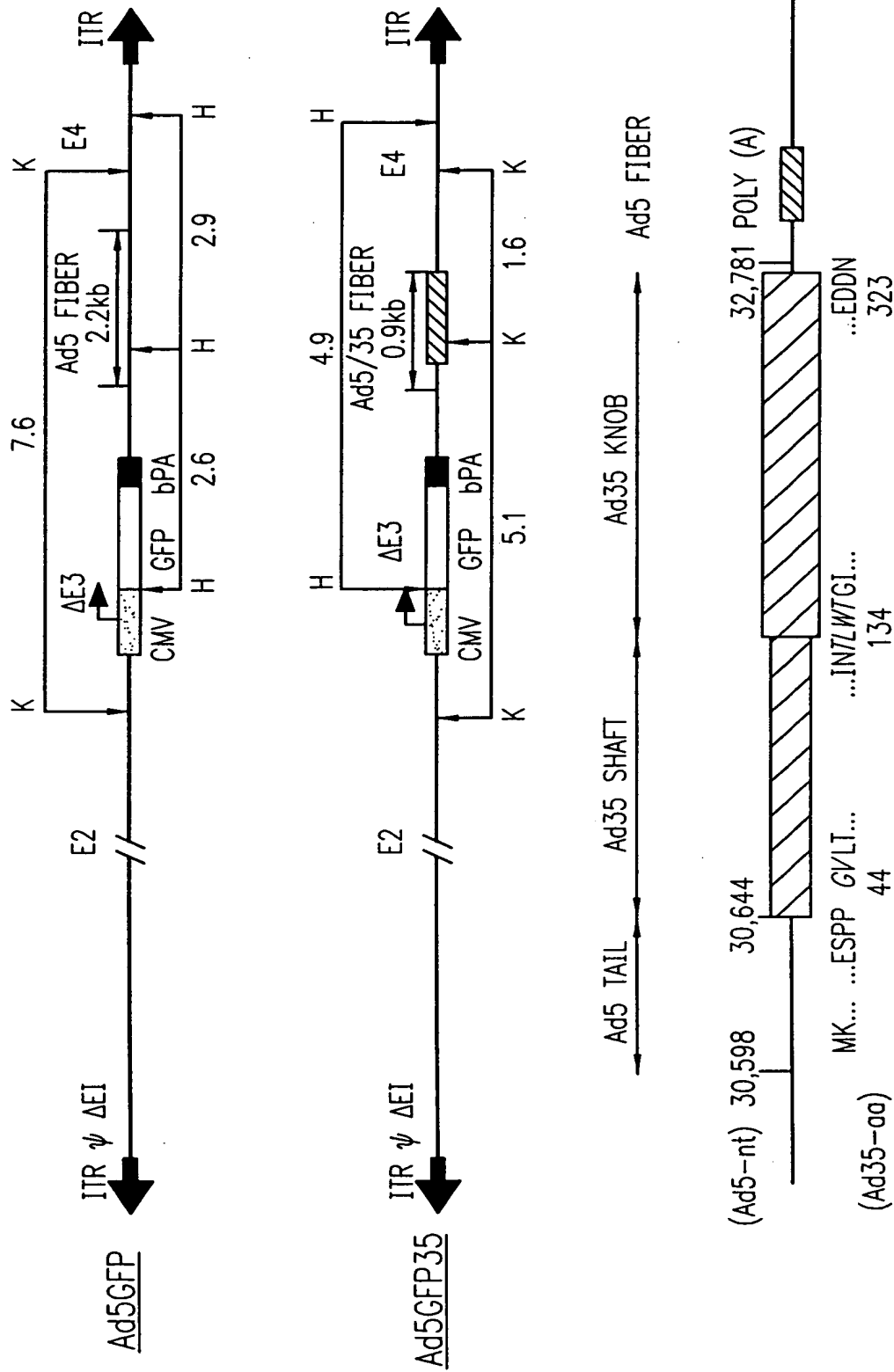


FIG. 16A

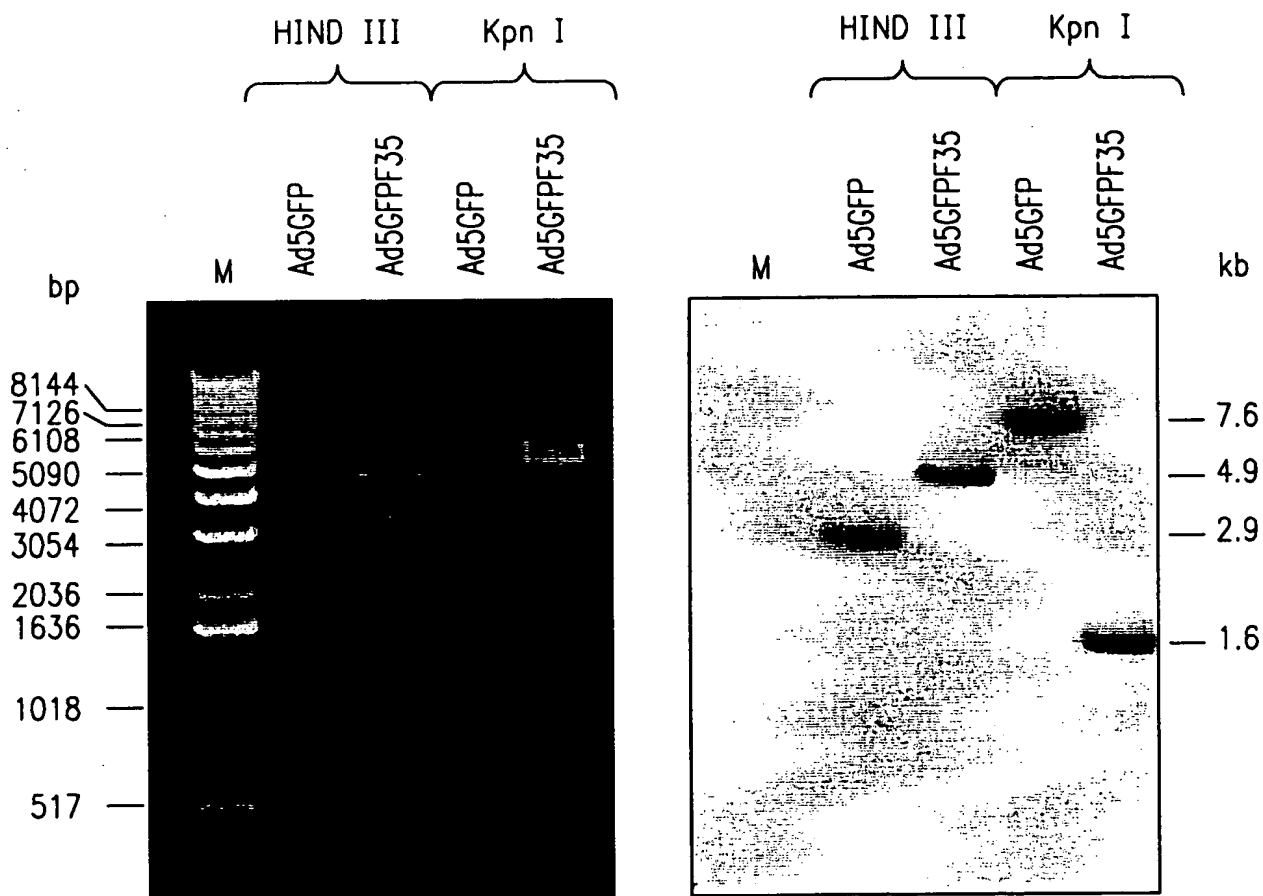


FIG. 16B

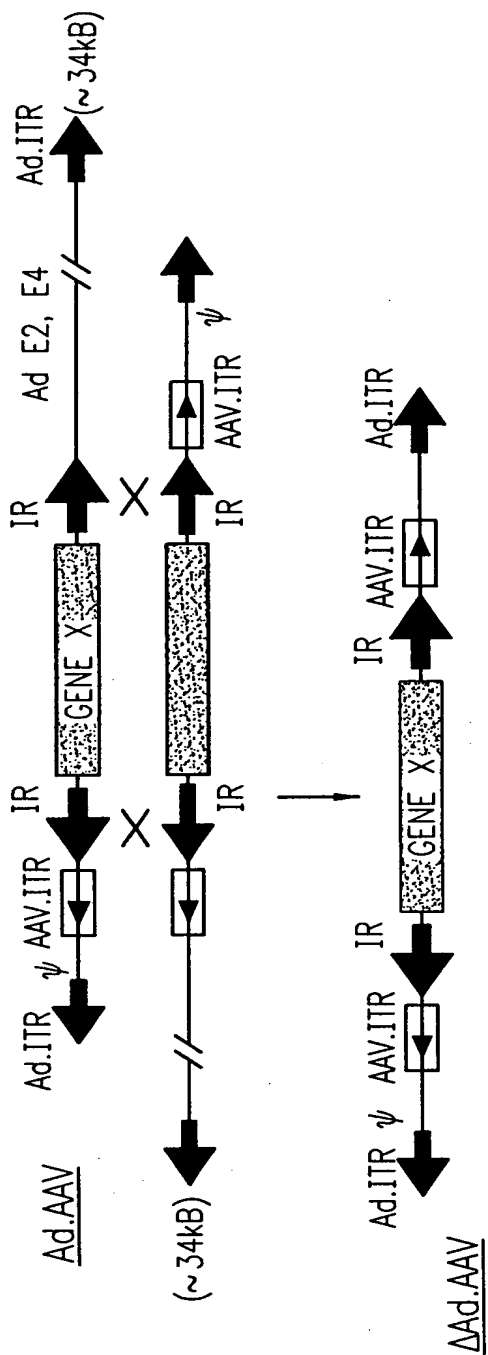


FIG. 17A

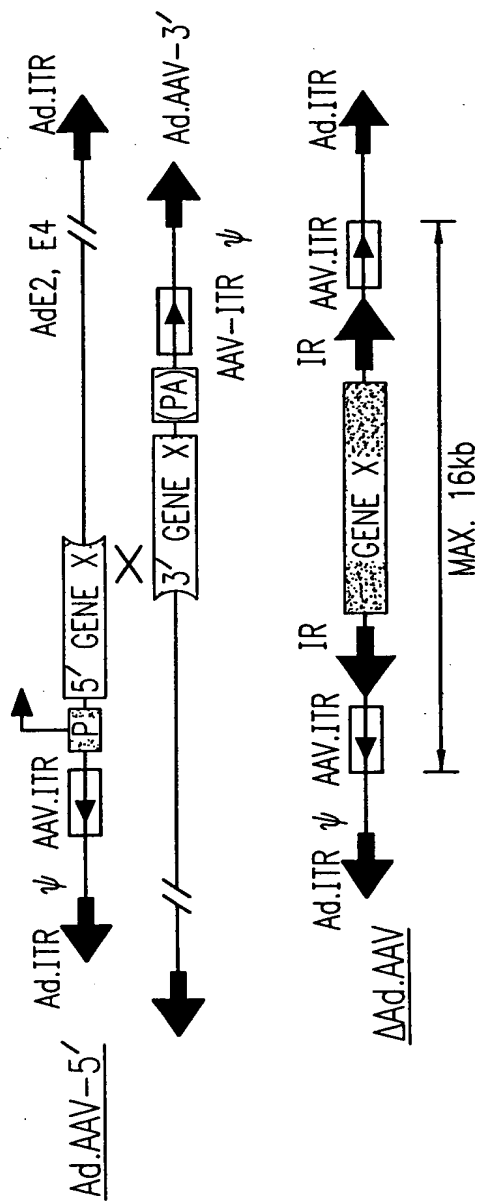


FIG. 17B

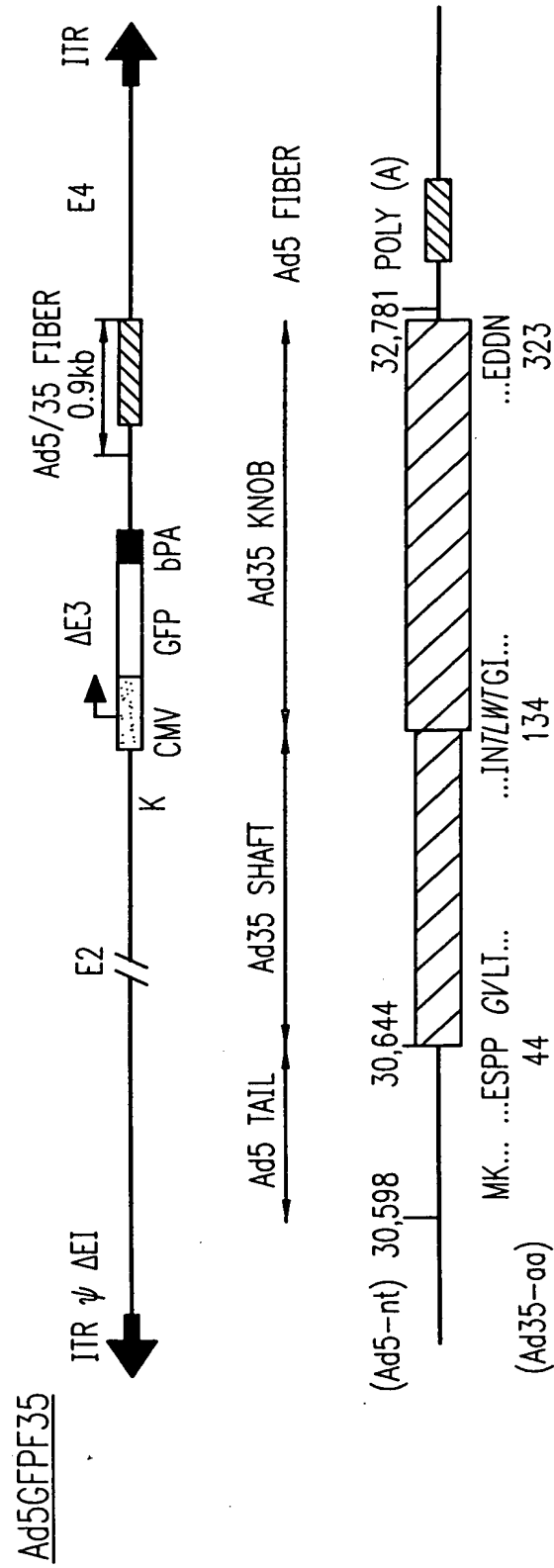


FIG. 18

■ CONTROL □ Ad5GFP ▨ Ad5GFPF35 ▩ Ad 35 ▤ Ad 3

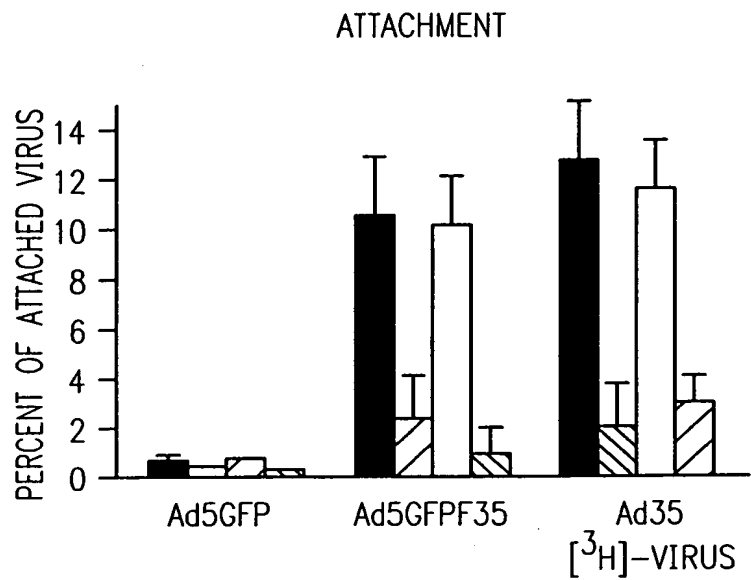


FIG. 19A

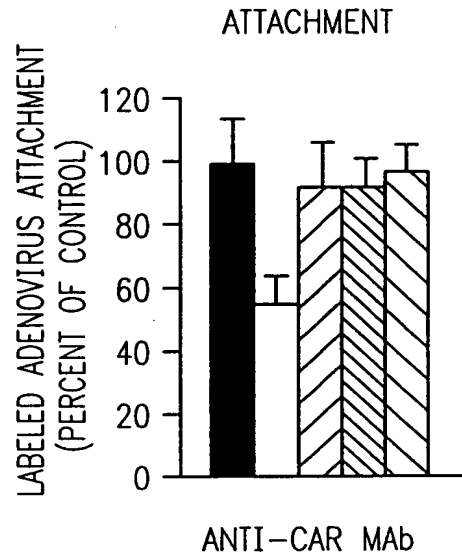


FIG. 19B

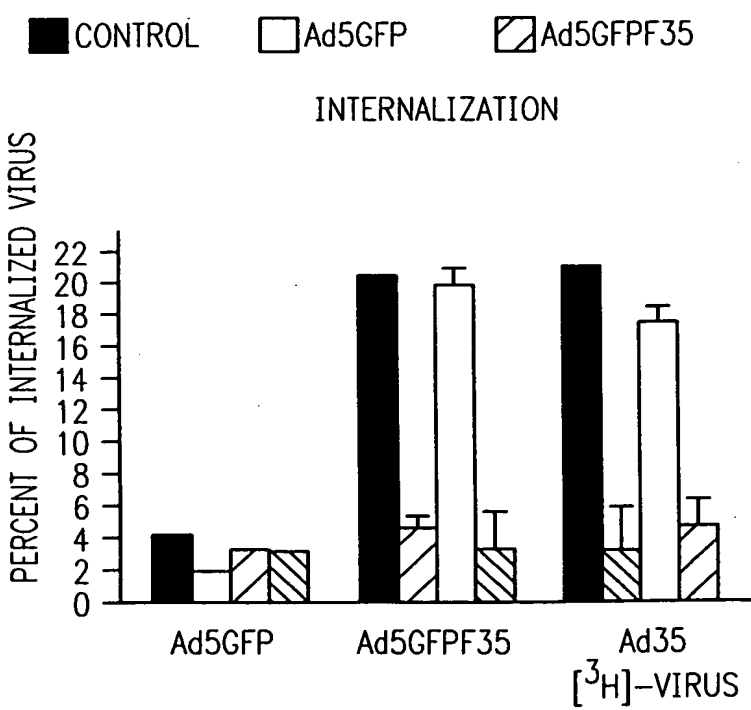


FIG. 19C

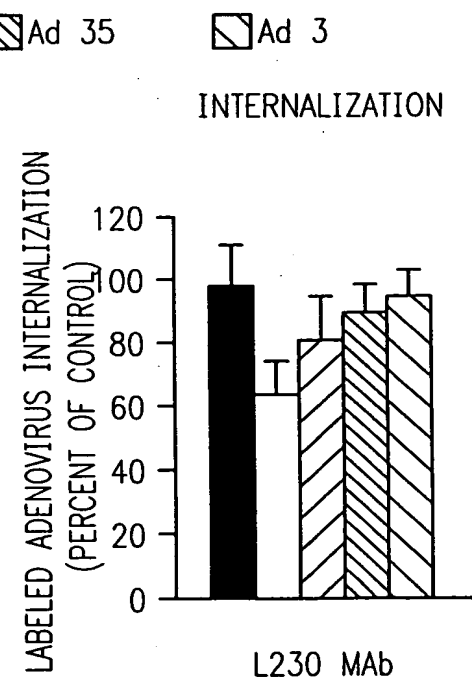


FIG. 19D

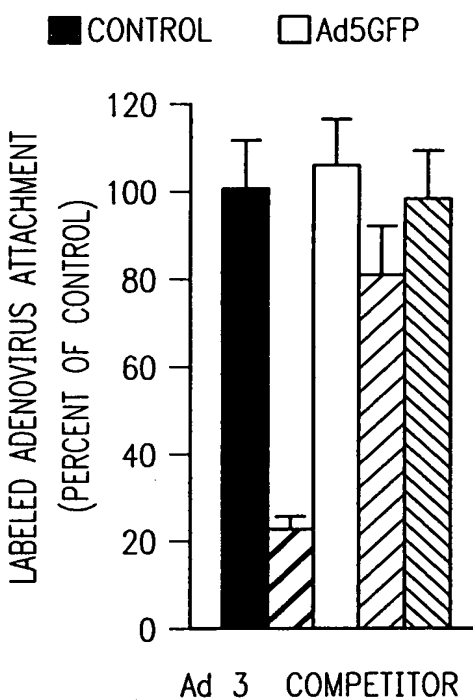


FIG. 20A

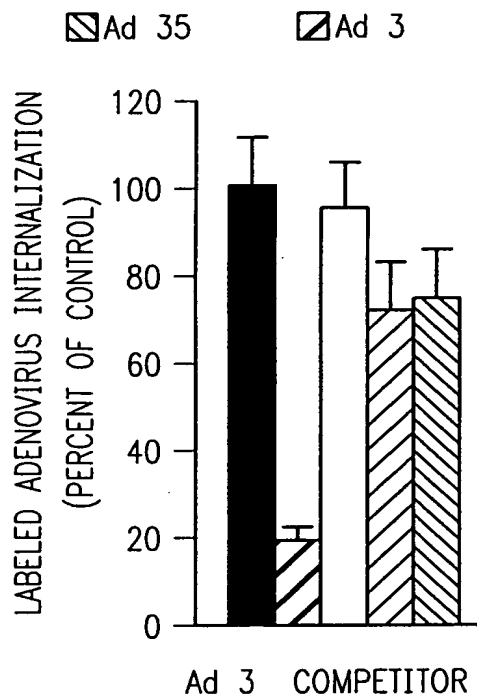


FIG. 20B

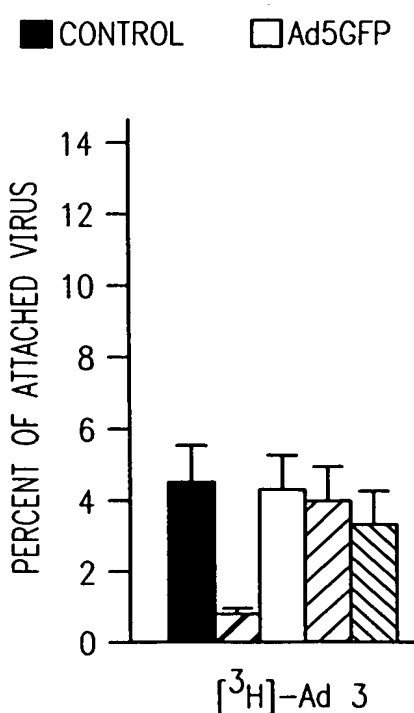


FIG. 20C

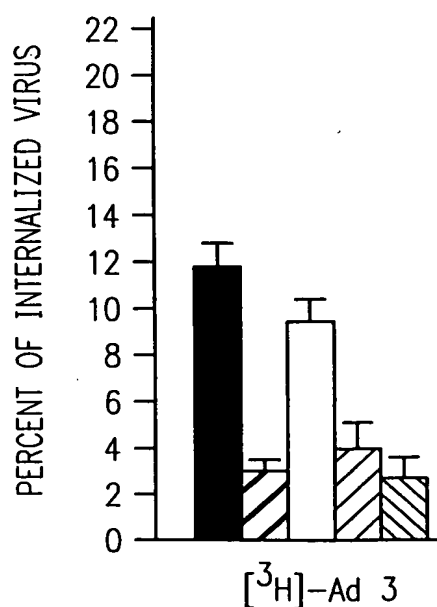


FIG. 20D

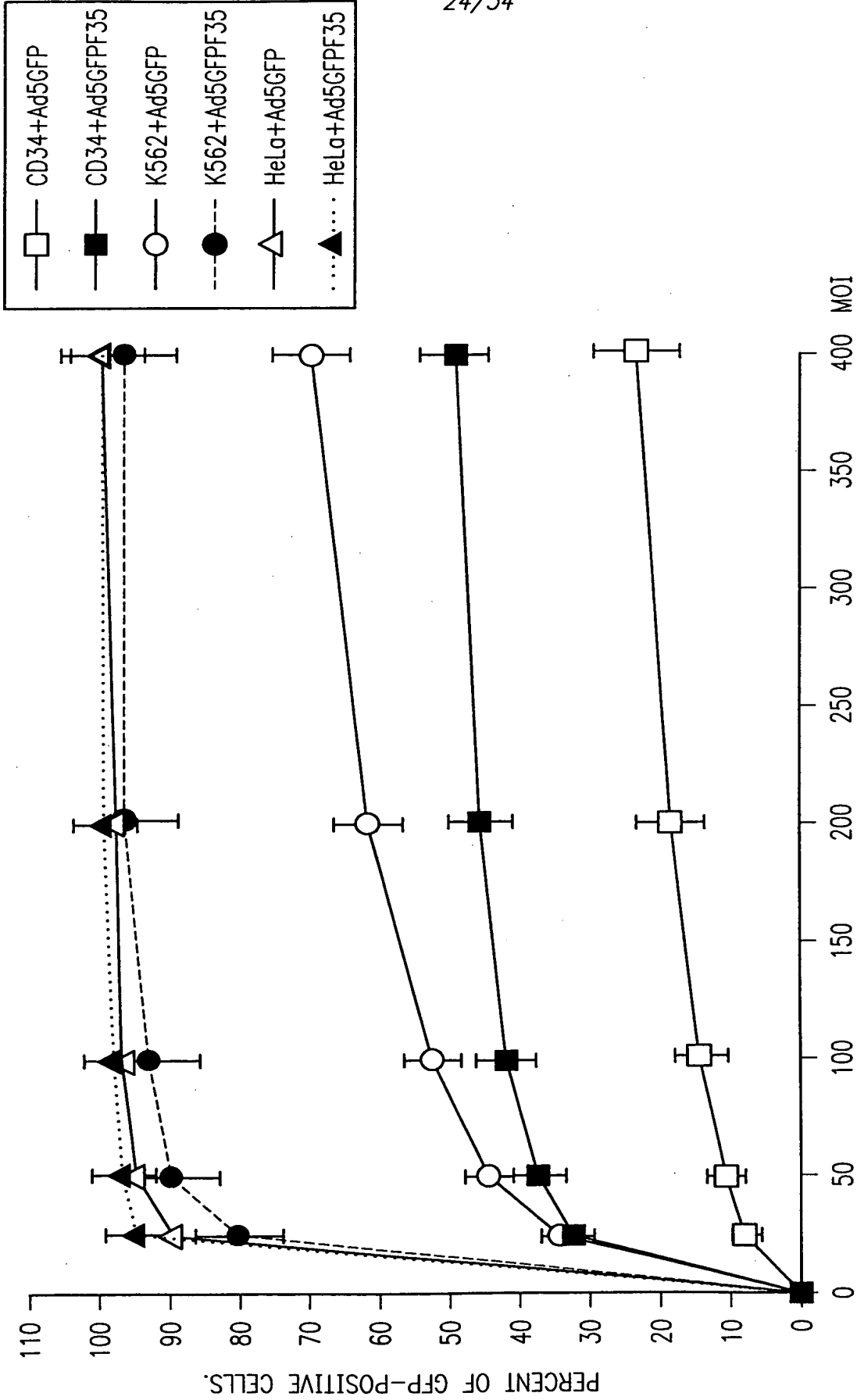


FIG. 21

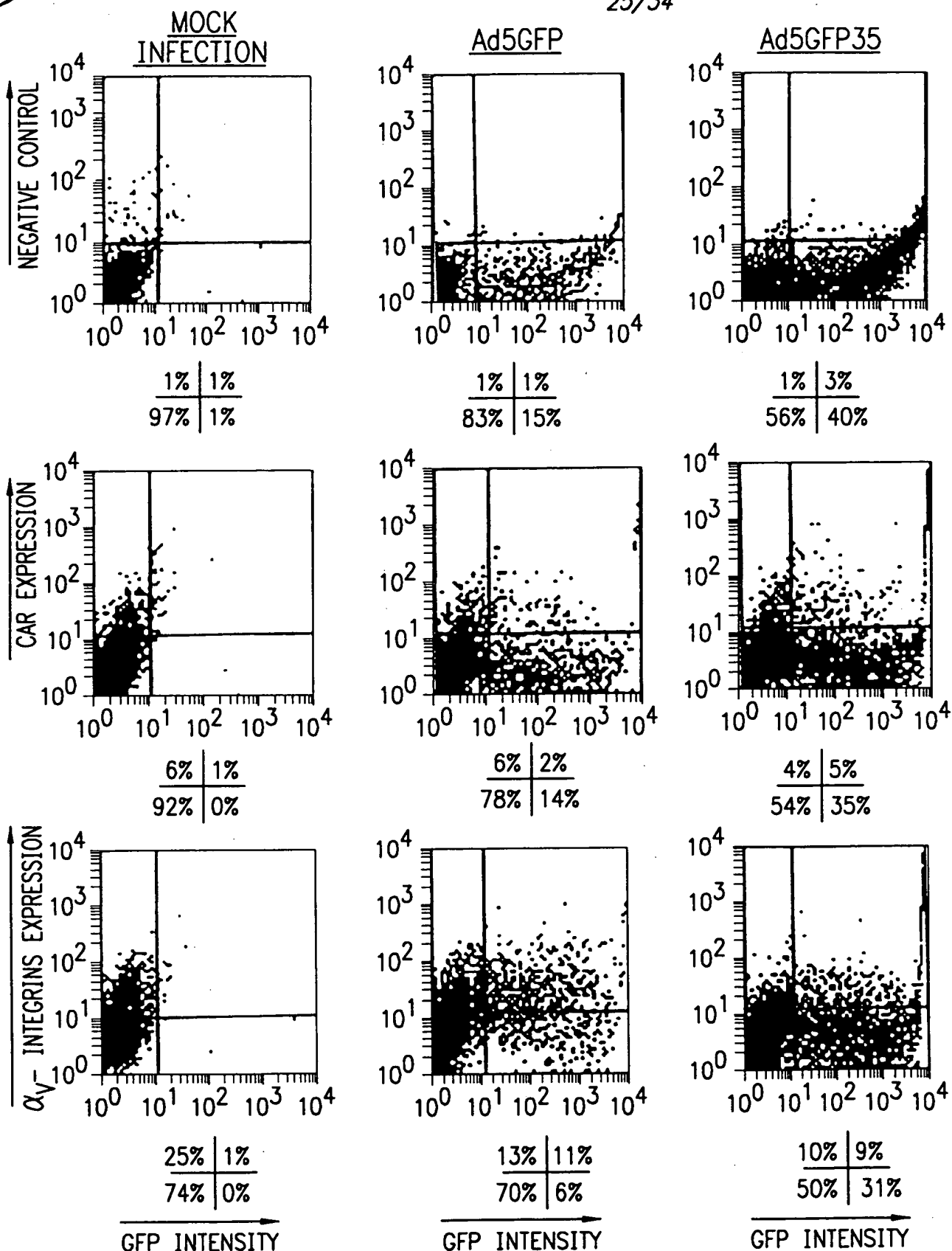


FIG. 22

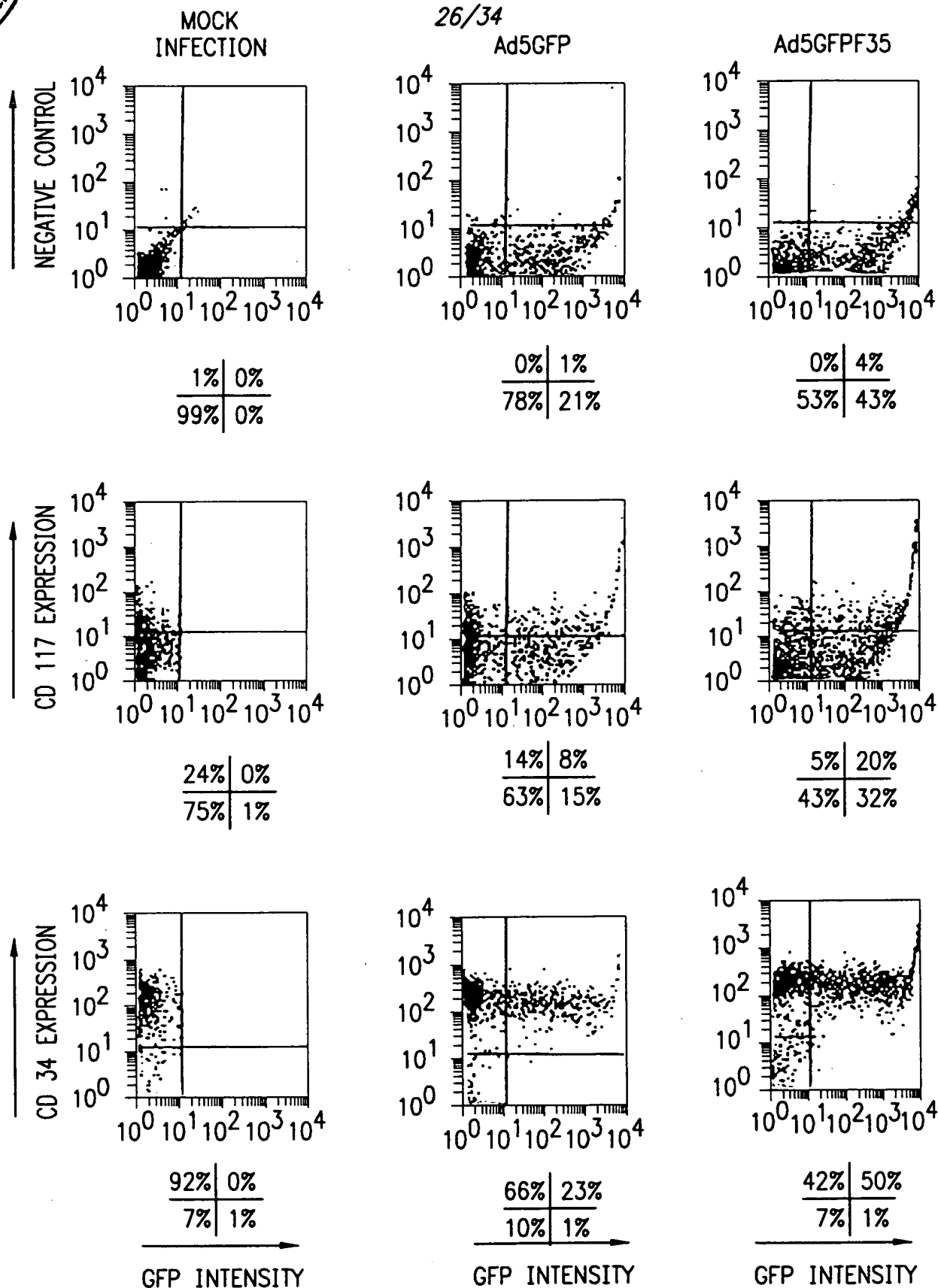


FIG. 23A

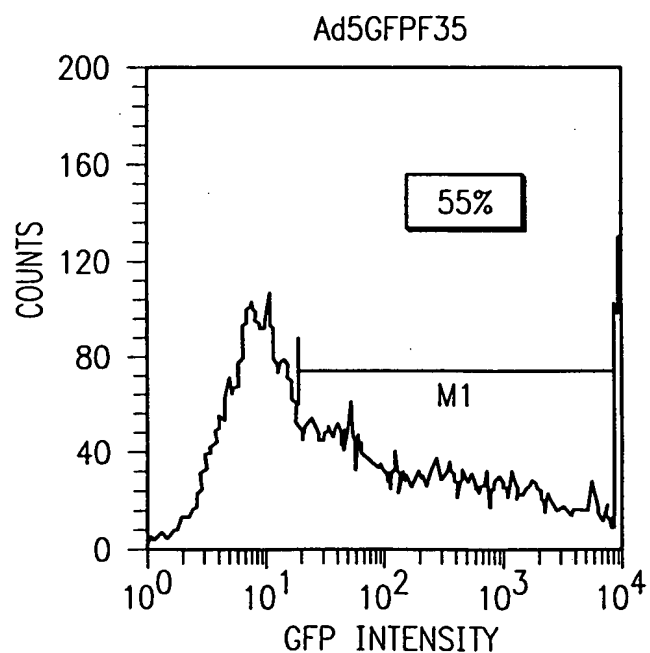
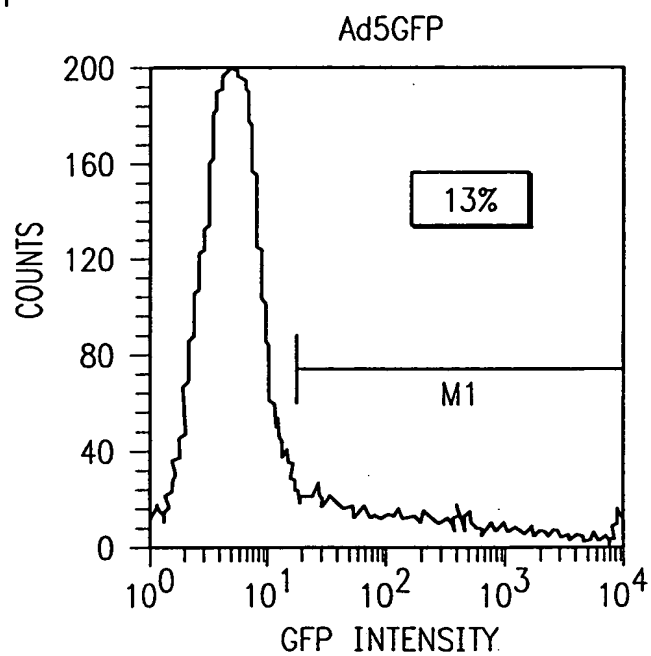
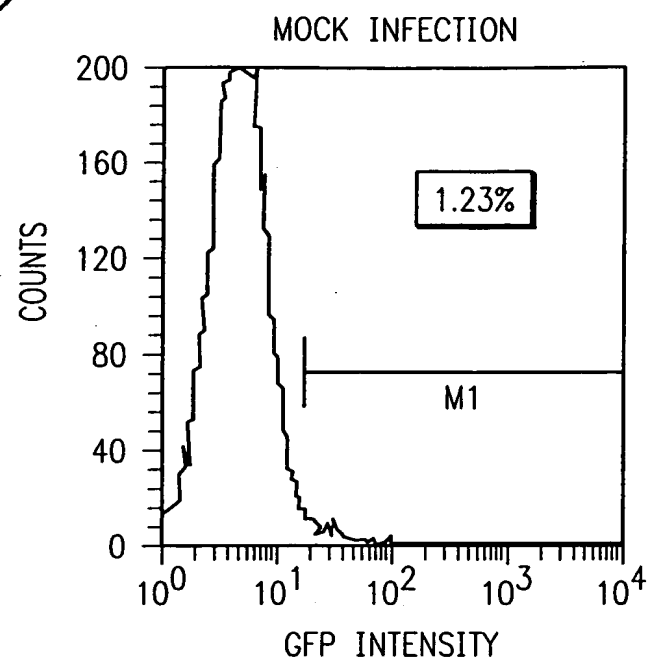


FIG. 23B



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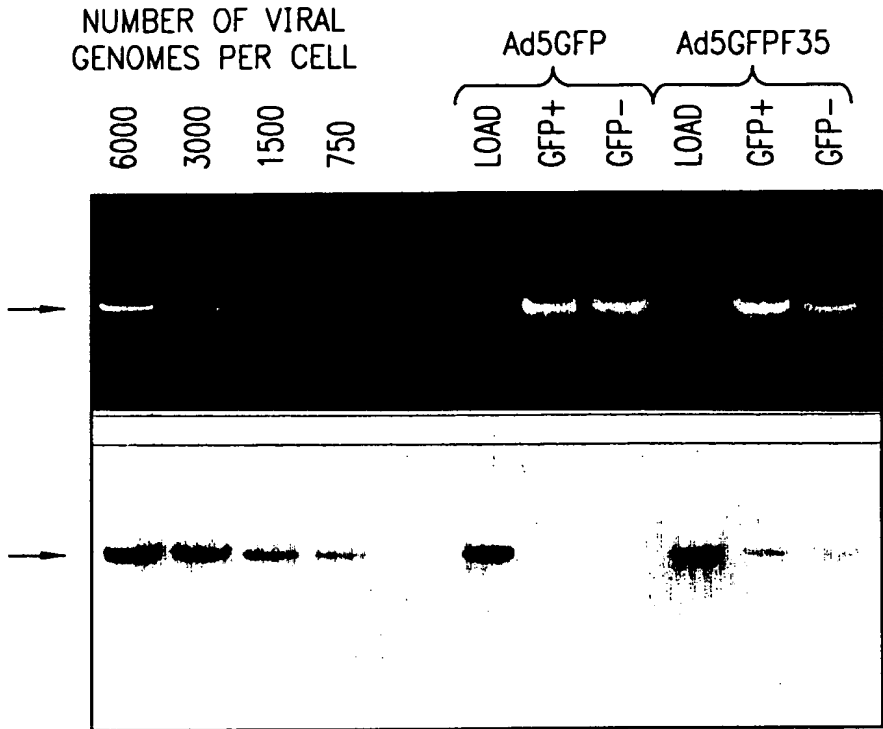


FIG. 24A

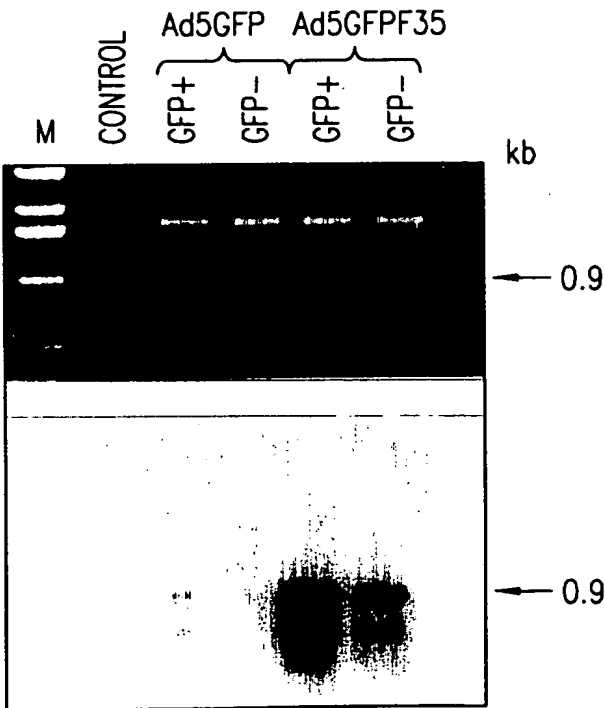


FIG. 24B

STRUCTURE AND FEATURES OF CHIMERIC ADENOVIRUS VECTORS.


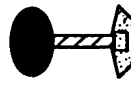

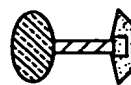

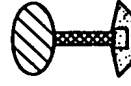
						
<u>Adeno vector</u>	Ad 5L	Ad 5S	Ad 5/9L	Ad 5/9S	Ad 5/35L	Ad 5/35S
<u>Binding to CAR</u>	YES	YES	YES	YES	NO	NO
<u>genome/PFU ratio</u>	13	143	29	582	17	14
<u>Attachment to/internalization into</u>						
293	+++	++	++	+/-	+++	+++
K562	-/+	--/+	--/+	---	+++	+++
Y79	++	+	+	+/-	+	+
<u>Gene transfer efficiency</u>						
293	+++	++	++	+/-	+++	+++
K562	-/+	--/+	--/+	---	+++	+++
Y79	++	+	+	+/-	+	+

FIG. 25

Top View of Adenovirus Type 5 Fiber Knob Domain

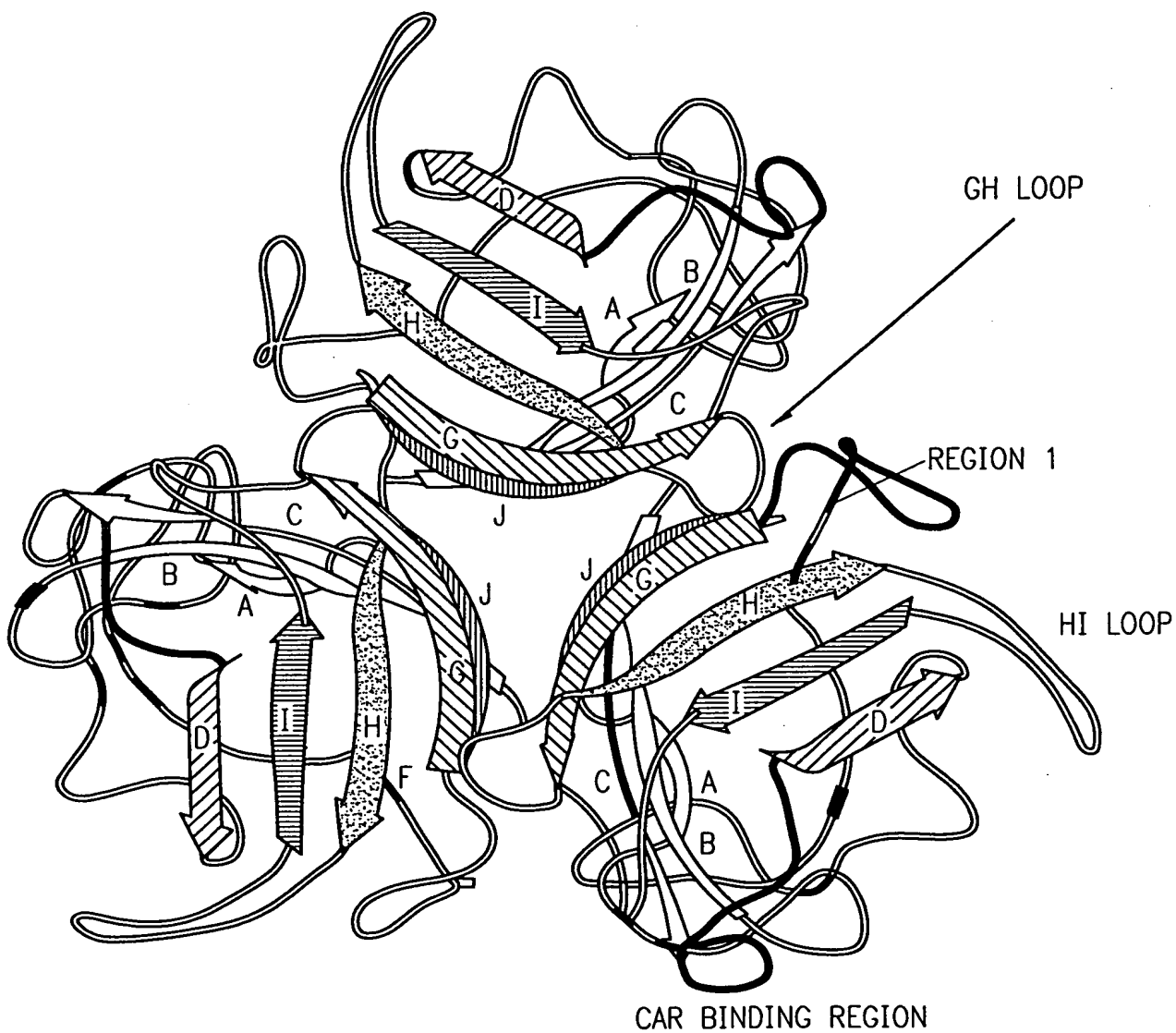
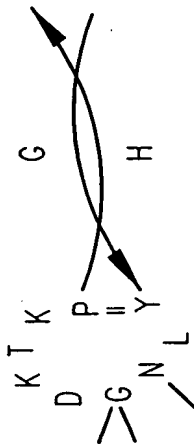


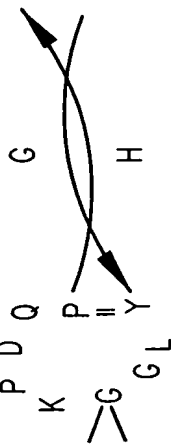
FIG. 26

Amino Acid Composition of Wt and Modified Adeno 5 GH-loop

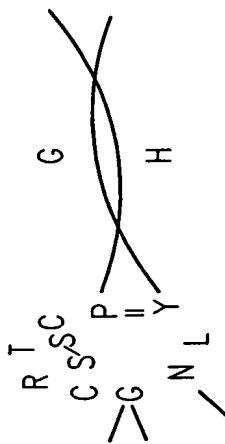
Adeno 5 wt GH-loop V Y] L N G D K T K [P V



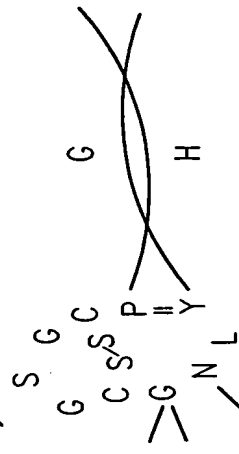
Adeno 5/9 GH-loop chimera V Y] L G G K P D Q [P V



Adeno 5 GH-Cys 1 V Y] L N G C G S C [P V



Adeno 5 GH-Cys 2 V Y] L N G C G S G C [P V



Adeno 5 GH-peptide V Y] L N G C G (X) G C [P V¹⁰

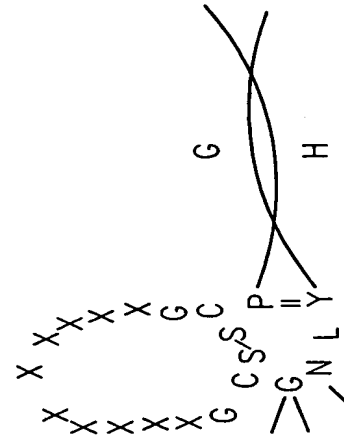


FIG. 27



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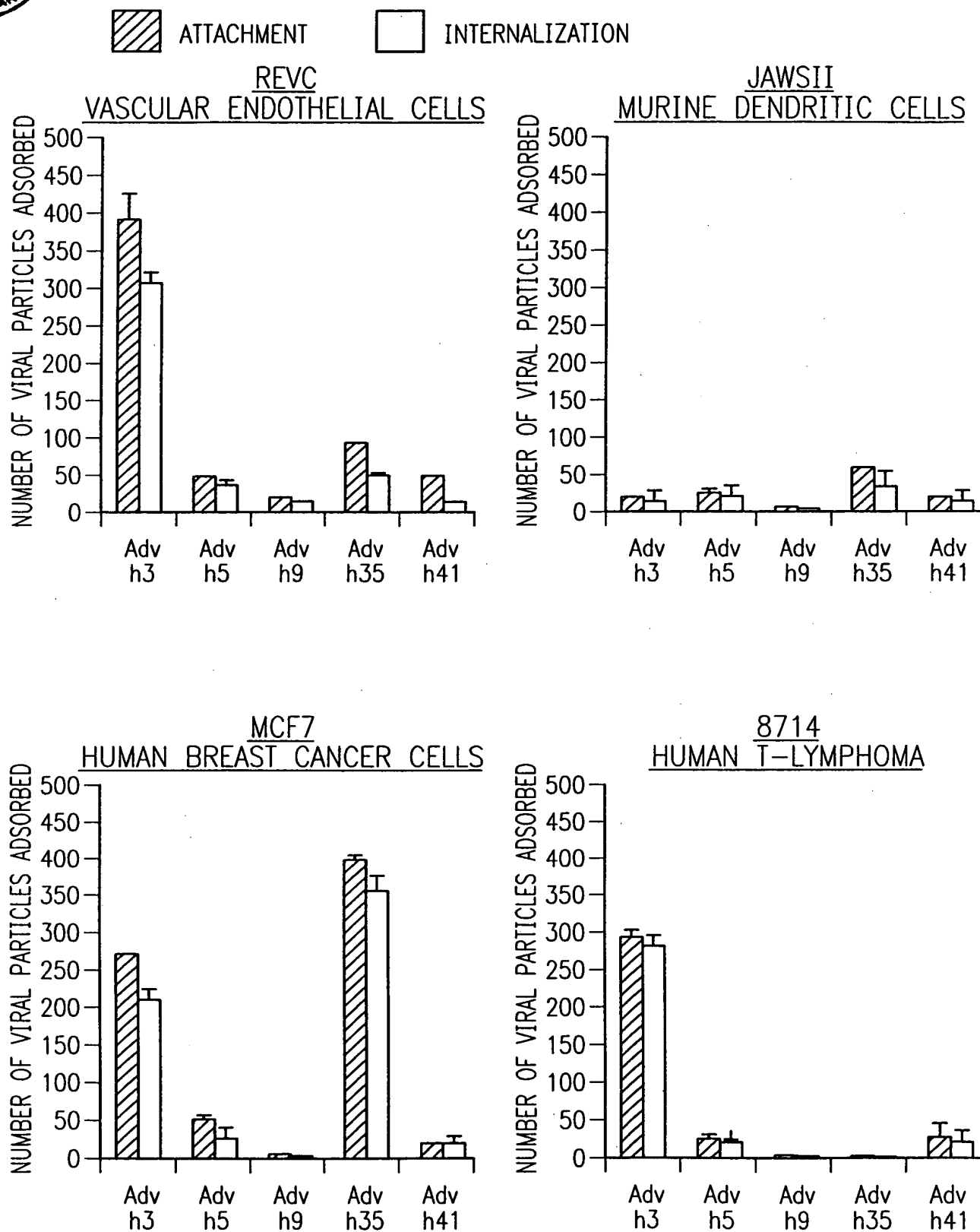


FIG. 28

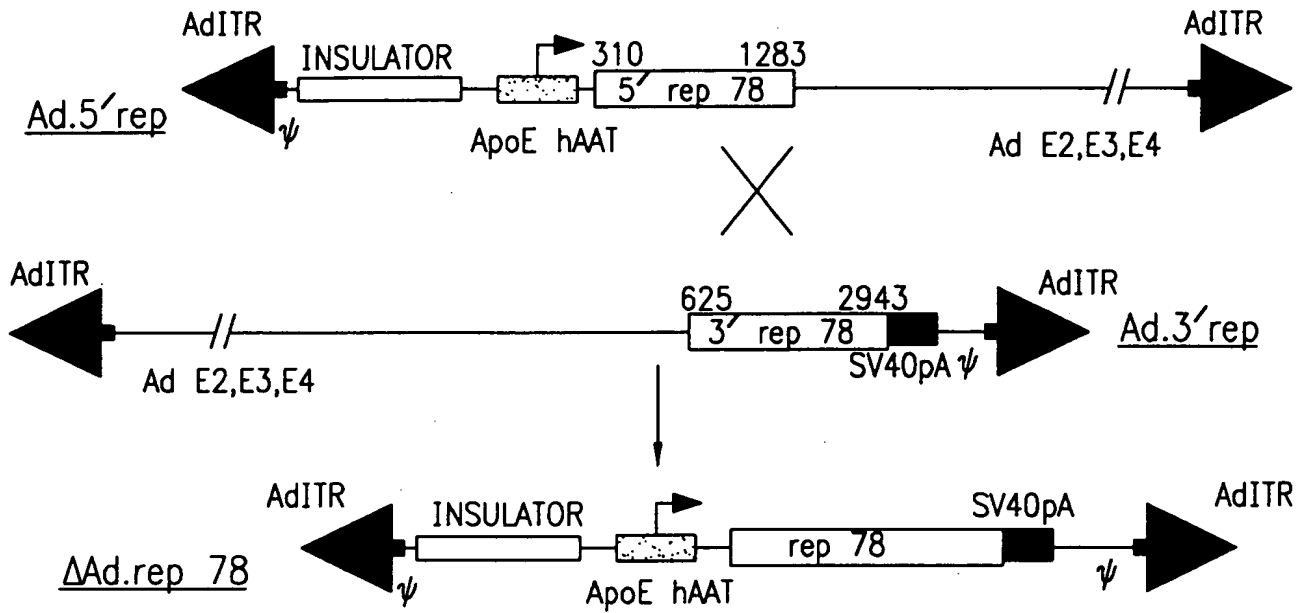


FIG. 29A

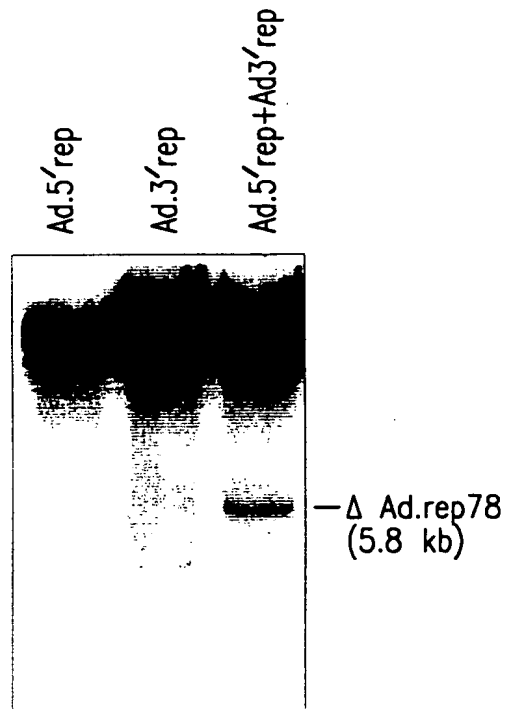


FIG. 29B

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-	-	+	-	+	+	Ad-Rep5' (virus)
-	-	-	+	+	+	Ad-Rep3' (virus)
-	+	-	-	-	-	pRep78 (plasmid)
+	+	-	-	-	-	Ad-helper

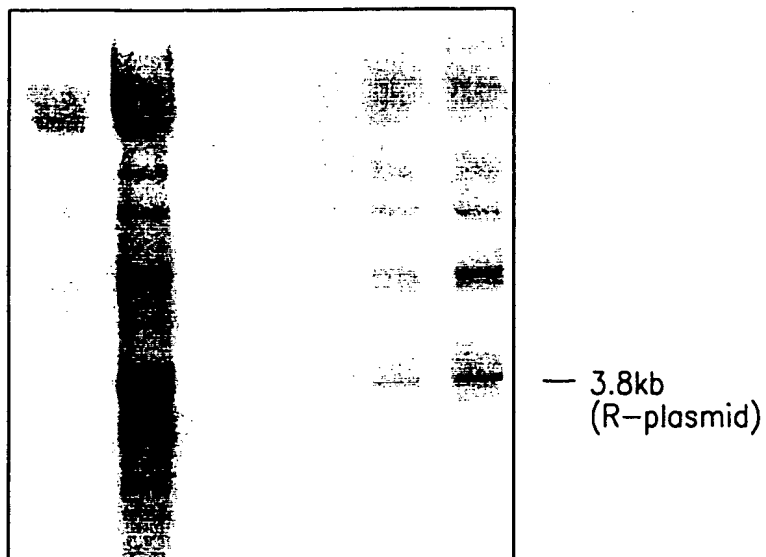


FIG. 29C

-	-	+	-	+	Ad-Rep5' (virus)
-	-	-	+	+	Ad-Rep3' (virus)
-	+	-	-	-	pRep78 (plasmid)

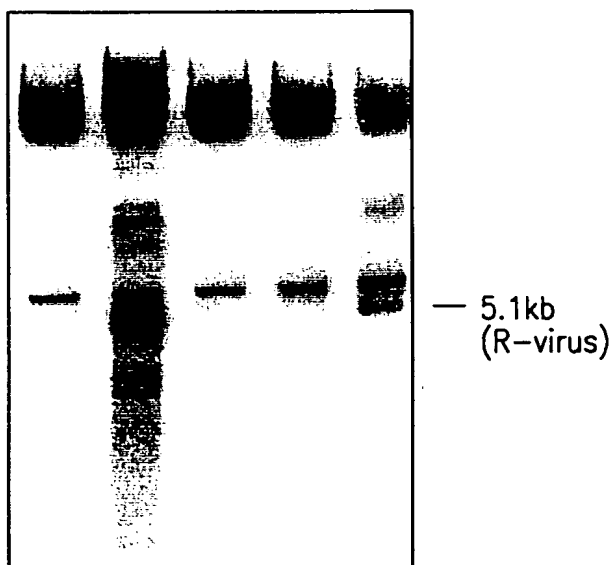


FIG. 29D